CATALOGUE D

GAS FITTERS

HANDY REFERENCE BOOK

ILLUSTRATING

GAS FIXTURES

INCANDESCENT GAS BURNERS.

MANTLES.

ACETYLENE BURNERS.

GLASSWARE.

IRON PIPE FITTINGS.

TOOLS, ETC.

R. Williamson & Co.

MANUFACTURERS OF

GAS, ELECTRIC & COMBINATION FIXTURES

STAPLE FITTINGS AND BRACKETS.

OFFICE & FACTORY
452-454 MILWAUKEE AVE.

SALESROOMS
52-54 LAKE STREET

CHICAGO, U. S. A.

CATALOGUE D

Gas Fitter's Handy Reference Book

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GAS FIXTURES

INCANDESCENT GAS BURNERS, MANTLES,
ACETYLENE BURNERS, GLASSWARE,
IRON PIPE FITTINGS, TOOLS, ETC.

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GAS, ELECTRIC AND COMBINATION

FIXTURES

STAPLE FITTINGS AND BRACKETS

Office and Factory
452-454 MILWAUKEE AVE.

Salesrooms
52-54 LAKE STREET
Near State St.

CHICAGO, U. S. A.

RULES

1. In ordering goods, give specific description and always order by **Catalogue number** and **number of plate;** do not use the words "Same as last."

2. State distinctly how the goods ordered are to be shipped, whether by freight, express, mail or otherwise. If there is any preference for a certain route, it should be mentioned on the order.

3. Great care is used in filling orders promptly, packing goods properly and obtaining receipts from carriers for delivery in good condition. We cannot, therefore, be responsible for goods damaged or lost in transportation. All possible precautions, however, will be used to prevent injury or delay, and if requested, shipments will be traced.

4. All claims concerning the shipment of goods must be made within three days from their receipt, and should be accompanied by the packing slip, which is forwarded with each shipment.

5. When referring to orders always give the number or date of your order.

6. Do not return material of any kind without first communicating with us and obtaining: 1st, Our approval for returning goods; and 2d, The proper shipping directions.

7. All returned goods must be plainly marked with the **name and address** of the sender, and proper notification of shipment with copy of shipping receipt **must** be sent to us.

8. The prices contained herein supersede all former prices.

9. Orders from persons unknown to us should be accompanied by draft or Chicago references, or if desired to be sent C. O. D., an amount sufficient to cover express or freight charges.

10. Boxing, casks and barrels are charged extra.

11. Prices subject to change without notice.

TJCAT
1905
PAP V04-B490
8-12-2004

Respectfully,

R. WILLIAMSON & CO.

Observe the Following Instructions and Avoid Errors

LENGTH AND SPREAD OF FIXTURES

The length of fixtures is from the top to the lowest point, whether it is the key or the bottom knob. The spread of fixtures is from burner to burner.

When sending height of ceilings, measure from the end of gas pipe down to the floor.

EXTRA LENGTHENING

Polished and Lacquered

3/8 inch brass tube, - - -	per foot, 30c. list
5/8 inch brass casing and iron pipe, -	per foot, 35c. list
3/4 inch brass casing and iron pipe, -	per foot, 40c. list

Add 15% for oxidized copper finish.
Add 15 % for oxidized silver finish.

FINISH OF FIXTURES

Fixtures are regularly finished in rich gilt, rich gilt and mat, or polished brass.

Oxidized copper finish, - - - - -	add 10%
Oxidized silver finish, - - - - -	add 20%

Fixtures will be shipped in the finish mentioned under each, unless ordered otherwise.

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Store Pendants

Number	Plate
182	953
184	953
191	954
192	955
194	954
197	955
198	956
199	956
201	957
205	957

One Light Pendants

Number	Plate
228	978
229	978
231	978
232	980
233	980
234	980
237	979
240	979
246	979

Newels and Standards

Number	Plate
413	969
416	969
419	969

Cigar Lighter Standard

Number	Plate
499	970

Hall Lights and Lanterns

Number	Plate
511	977
512	977
532	975
533	974
535	975
536	973
537	974
559	977
569	976
570	976
572	971
573	972

Portable Lamps

Number	Plate
688	959
689	959
690	962
691	962
692	966
693	966
694	958
695	958
696	964
697	964
698	960
699	960
700	965
701	965
702	968
703	963
704	963
705	961
706	951
707	967
708	967
709	968

Brackets

Number	Plate
803	983
820	983
821	988
831	981
849	985
850	985
851	985
852	985
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854	985
855	986
856	986
857	986
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865	987
866	987
867	987
868	988
869	988
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873	988
886	982
887	983
890	981
891	981
892	982
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918	984
935	984
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1164	907
1183	913
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1207	910
1219	923
1221	919
1223	926
1227	929
1231	930
1239	924
1250	927
1259	933
1262	937
1285	950
1286	951
1287	952
1290	945
1291	908
1292	947
1293	928
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1298	935
1300	936
1301	938
1304	941
1305	946
1307	912
1308	911
1309	906
1310	915
1311	905
1312	920
1313	925
1314	914
1315	917
1316	934
1317	922
1318	916
1319	940

Art Glass

Number	Plate
H1014	1003
H1071	1002
H1073	1003
H1186	1002

Holophane Glass

Number	Plate
1381	991
1386	992
1387	992
1390	991
1391	991
3110	991
3603	991
3801	991
3911	991
4101	990
4201	990
4401	990
6137	992
6139	992
6381	992
6391	992

Glassware

Number	Plate
H112	1004
H942	1001
H1046	1004
H2059	1001
P7	997
P11	1007
P12	1007
W10	1011
W41	1018
W43	1011
W74	1011
W75	1000
W76	1000
W77	1000
W78	1000
W79	1016
W81	1015
W82	1015
W83	1014
W91	1013
W92	1013
W95	1014
W100	1006
W103	1005
W107	1006
W111	1005
W125	1000
W126	1000
W127	1000
W162	999
W822	1017
W822½	1016
W3825	995
W3828	995
W3831	995
W3833	995
W3836	995
W3839	995
35	1020
36	1020
37	1021
38	1021
42	993
66	999
123	1008
124	1008
135	1010
136	1010
137	1009
138	1009
141	1009
142	1009
143	1010
143½	1010
146	1097
147	1097
148	1097
154	1021
157	1012
158	1012
161	1012
162	1012
162½	999
163	1012
163½	1012
168	1019
200	997
201	997
202	997
437	1012
445	1020
446	1020
447	1020
448	1020
449	1020
450	1020
451	1021
452	1021
453	999
464	993
581	994
606	999
607	999
608	996
609	996
657	993
669	994
905	996
906	996
973	993
1530	998
1531	998
1801	993
1802	993
2735	994
2956	994
4001	996
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6075	994
6462	998
6517	993
6525	996
6715	994
6716	994
6972	998
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8054	994
8412	998
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Number	Plate
08	1138
09	1138
015	1138

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Number	Plate
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017	1137
018	1137

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Number	Plate
075	1081

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Number	Plate
080	1112
081	1113
082	1113
083	1113
084	1114
085	1114
086	1114

Outdoor Lamps, Etc.

Number	Plate
093	1105
094	1105
0100	1102
0101	1102
0103	1103
0104	1103
0105	1101
0106	1101
0107	1104
0108	1109
0109	1100
0110	1100
0111	1097
0112	1088 and 1100
0114	1105
0115	1109
0116	1104
0118	1099
0119	1099
0120	1099
0121	1106
0122	1106
0123	1098
0124	1098
0125	1098
0126	1107
0127	1107
0128	1108

Gas Burners, Tips, Etc.

Number	Plate
0149	1056
0150	1053
0151	1053
0152	1054
0153	1054
0154	1054
0155	1054
0159	1056
0160	1056
0161	1056
0162	1056
0163	1056
0164	1056
0165	1054
0165½	1054
0166	1056
0168	1087
0169	1056
0170	1057
0172	1055
0173	1055
0174	1055

Kern Incandescent Lights, Etc.

Number	Plate
K 9	1043
K 12	1043
K 19	1043
K 31	1043
K 71	1044
K 72	1044
K 92	1042
K 121	1041
K 139	1041
K 142	1041
W 16	1027
W 17	1027

Incandescent Burners, Mantles, Etc.

Number	Plate
2	1047
36	1046
55	1046
63	1048
189	1045
197	1045
0	1026
90	1026
0180	1051
0181	1039
0182	1039
0183	1051
0184	1049
0185	1052
0186	1052
0187	1052
0188	1040
0189	1040
0190	1034
0191	1035
0192	1033
0193	1033
0194	1038
0195	1036
0196	1037
0197	1030
0198	1029
0199	1028
0199½	1026
0200	1032
0201	1031
0202	1032
0203	1024
0204	1025
0204½	1026
0205	1023
0206	1050
0207	1050
0208	1050
0209	1050

Acetylene Burners

Number	Plate
051	1060
052	1060
054	1060
0250	1058
0251	1058
0252	1058
0253	1058
0254	1059
0255	1066
0256	1063
0257	1061
0258	1061
0259	1061
0260	1061
0261	1065
0262	1065
0263	1065
0264	1065
0266	1059
0268	1059
0269	1059
0270	1059
0271	1063
0272	1062
0273	1062
0274	1062
0275	1061
0276	1066
0277	1064
0278	1063
0279	1066
0280	1060

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Number	Plate
0310	1057
0311	1057
0320	1057
c321	1057

Burner Cleaners

Number	Plate
0325	1067
0326	1068
0327	1068
0328	1068
0329	1067

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Number	Plate
0350	1070
0351	1072
0352	1071
0353	1071
0354	1071
0355	1075
0356	1074
0357	1073
0358	1075
0359	1078
0360	1070
0361	1072
0362	1070
0363	1073
0364	1079
0365	1076
0366	1076
0367	1079

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Number	Plate
0375	1144

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Number	Plate
0381	1119
0382	1119
0383	1120
0384	1120

Williamson Arc Lights

Number	Plate
0385	1115

Store Reflectors

Number	Plate
0391	1118
0396	1117
0397	1116

Ceiling Plates and Burner Cups

Number	Plate
0400	1091
0401	1091
0402	1091
0405	1091
0406	1091

Canopies

Number	Plate
0410	1090
0411	1090
0412	1090
0413	1090

Casing and Tubing

Number	Plate
0414	1092
0415	1092
0416	1092
0417	1092

Soldering Compound and Cement

Number	Plate
0418	1137
0419	1137
0420	1086
0421	1137

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Number	Plate
0422	1080

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Number	Plate
0424	1093
0425	1093
0426	1093

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Number	Plate
0430	1185
0431	1185
0432	1185
0434	1185
0435	1185
0440	1185
0441	1185

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Number	Plate
0449	1069
0454	1069
0455	1069
0456	1069
0457	1069

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Number	Plate
0460	1085

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Number	Plate
0475	1126
0476	1126
0479	1126
0480	1127

Footlight Screens

Number	Plate
0487	1121
0488	1121

Border Light

Number	Plate
0489	1121

Tin Shades

Number	Plate
0490	1130
0491	1125
0492	1125
0493	1130
0494	1130
0495	1129
0496	1129
0497	1129
0512	1124
0513	1124

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Number	Plate
0500	1125
0502	1127

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Number	Plate
0514	1128
0515	1128

Smoke Bell Hooks and Frames

Number	Plate
0520	1068
0521	1068
0522	1068

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Number	Plate
0525	1125
0526	1089
0527	1089
0530	1088
0535	1088
0536	1088
0539	1089
0540	1089
0542	1089
W 16	1027
W 17	1027

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Number	Plate
0550	1096
0551	1096
0552	1096

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Number	Plate
0565	1097
0566	1097
0567	1097

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Number	Plate
0575	1019
0576	1019
0577	1019

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Number	Plate
0590	1094
0591	1094
0592	1094
0593	1094
0594	1095
0595	1095
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0598	1095
0599	1095
0600	1095
0601	1094
0601½	1094

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Number	Plate
0650	1083
0651	1083
0657	1083
0658	1083
0659	1189

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Number	Plate
0660	1084
0661	1084
0662	1084
0663	1085
0664	1084
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Number	Plate
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0678	1087
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Number	Plate
0682	1086
0683	1086
0684	1086
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Number	Plate
0686	1082
0687	1082

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Number	Plate
0690	1086
0692	1086
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Number	Plate
0695	1111

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Number	Plate
0699	1136

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Number	Plate
0700	1131

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Number	Plate
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0701½	1110
0703	1111
0705	1132
0706	1132
0707	1132
0708	1132
0709	1132
0710	1136
0718	1133
0719	1133
0720	1131
0721	1134
0722	1135

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Number	Plate
0725	1139
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Number	Plate
0728	1144

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Number	Plate
0731	1147
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Number	Plate
0733	1142
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0735	1143
0736	1143
0737	1143
0738	1143

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Number	Plate
0739	1142

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Number	Plate
0740	1141
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Number	Plate
0745	1160
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Number	Plate
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0750	1157
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01103.....1122
01104.....1122
01106.....1122
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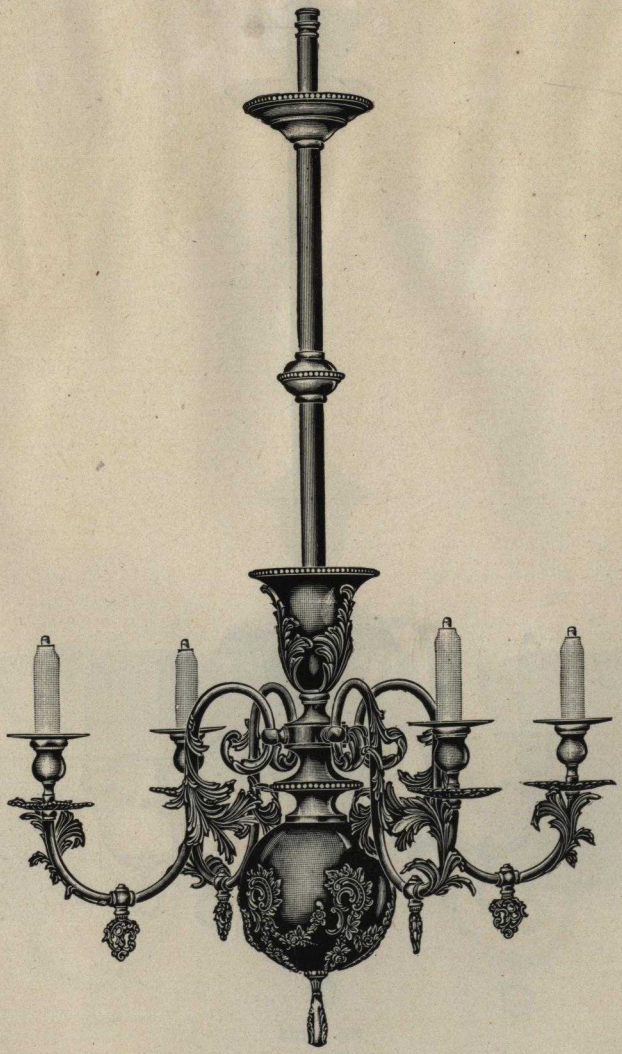
Number Plate
01115.....1077
01116.....1077
01117.....1077

CHANDELIERS



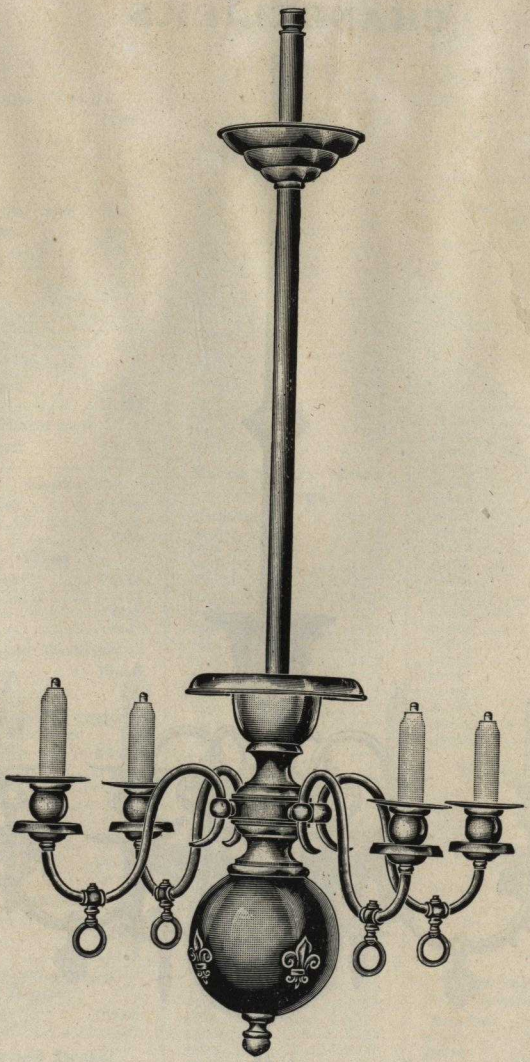
No. 1311

Rich Gilt and Mat. Length, 36 inches; Spread, 24 inches

4 Lights.....$60.00 6 Lights.....$67.50

Candles included

Order by catalogue numbers



No. 1309

Brushed Brass. Length, 36 inches; Spread, 20 inches

4 Light.....$32.50 5 Light.....$36.50 6 Light.....$40.50

Candles included

Order by catalogue numbers

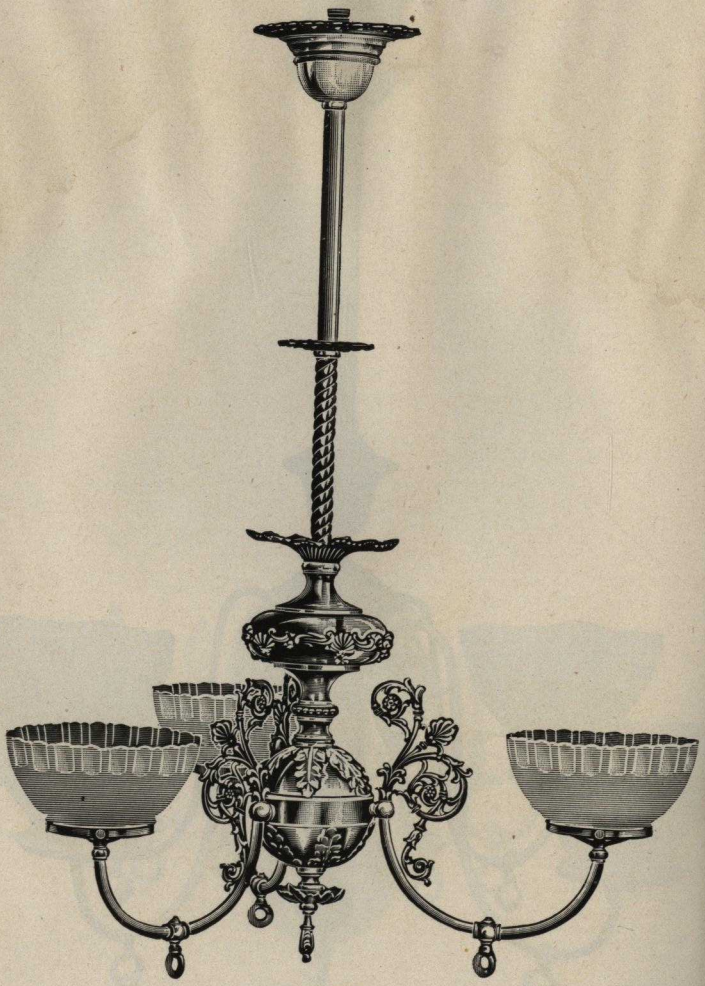
No. 1164

Rich Gilt. Length, 36 inches; Spread, 24 inches

2 Light.....$25.00
3 " 30.00
4 Light.....$35.00
5 " 40.00
6 Light.....$45.00

Globes not included

Order by catalogue numbers



No. 1291

Rich Gilt and Mat. Length, 36 inches; Spread, 24 inches

2 Light.....$25.00
3 " 29.00
4 Light.....$33.00
5 " 37.00
6 Light.....$41.00

Globes not included

Order by catalogue numbers

No. 1197

Rich Gilt. Length, 36 inches; Spread, 22 inches

2 Light.....$17.00
3 " 20.00
4 Light.....$23.00
5 " 26.00
6 Light.....$29.00

Globes not included

Order by catalogue numbers

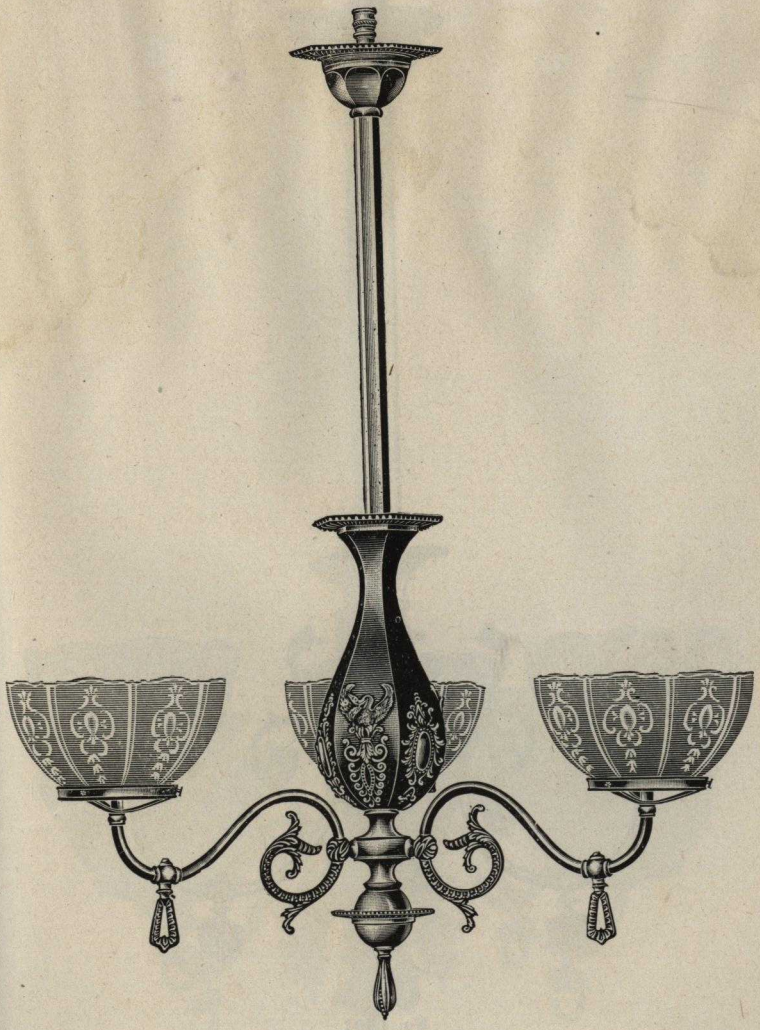
No. 1207

Rich Gilt. Length, 36 inches; Spread, 17 inches

2 Light	$14.00	4 Light	$22.00
3 "	18.00	5 "	26.00

Globes not included

Order by catalogue numbers



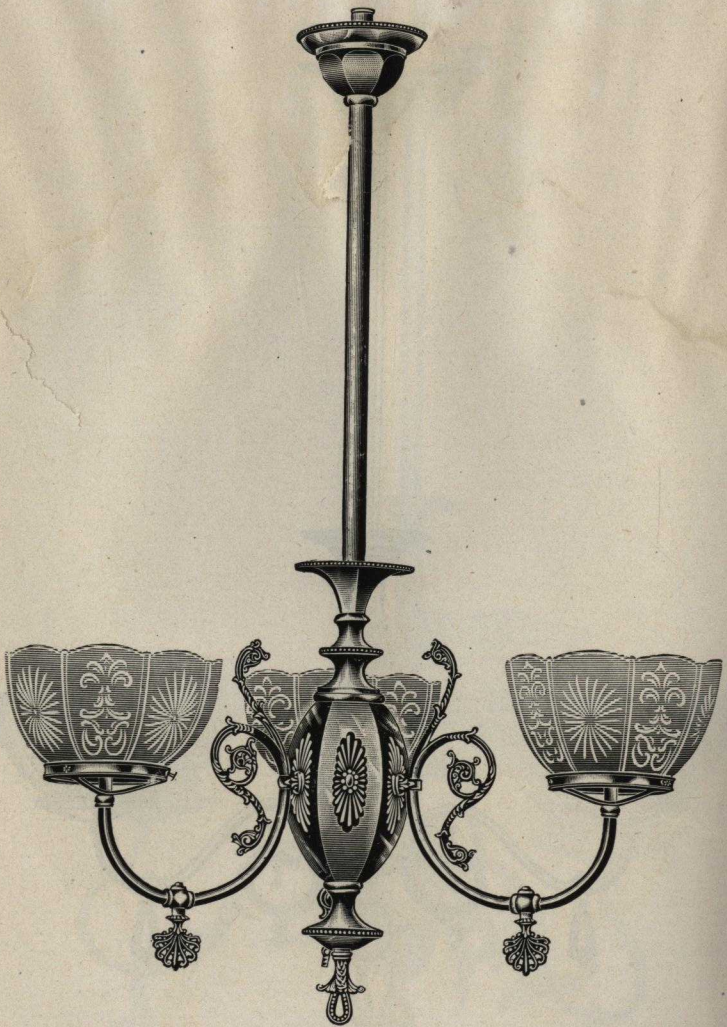
No. 1308

Rich Gilt and Mat. Length, 36 inches; Spread, 21 inches

3 Lights.....$29.75 4 Lights.....$33.00

Globes not included

Order by catalogue numbers



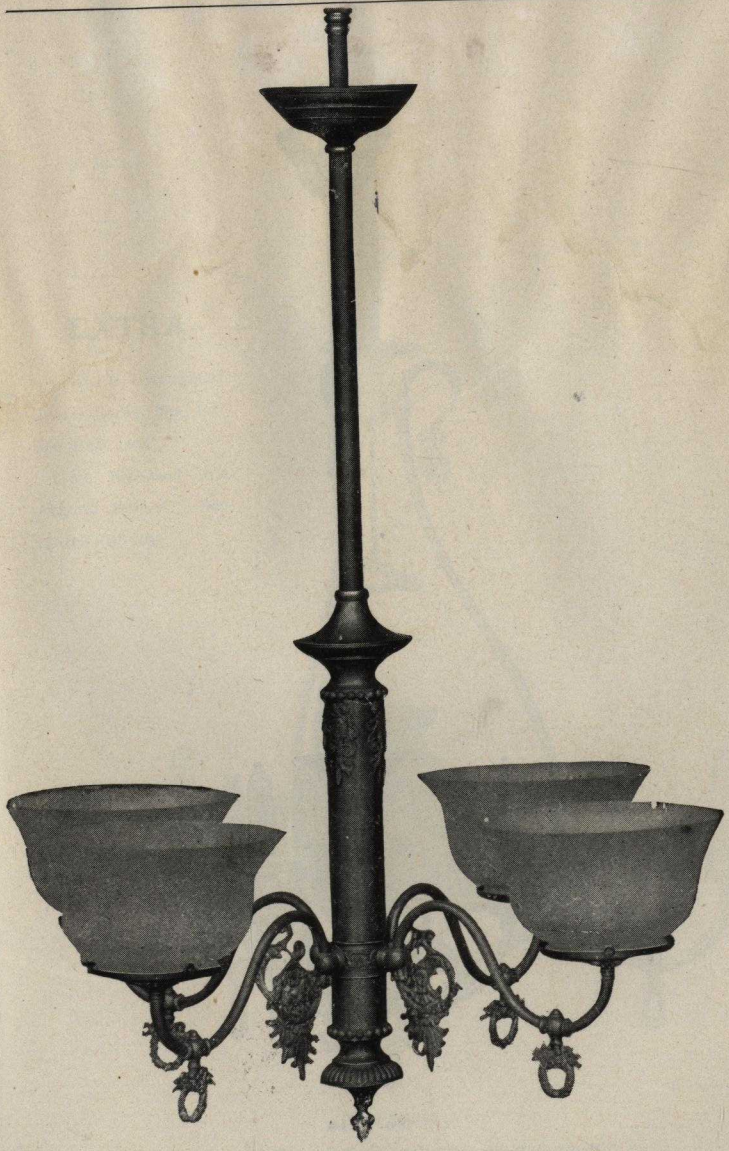
No. 1307

Rich Gilt and Mat. Length, 36 in.; Spread, 20 in.

2 Lights.....$11.50 3 Lights.....$14.25 4 Lights.....$17.00

Globes not included

Order by catalogue numbers



No. 1183

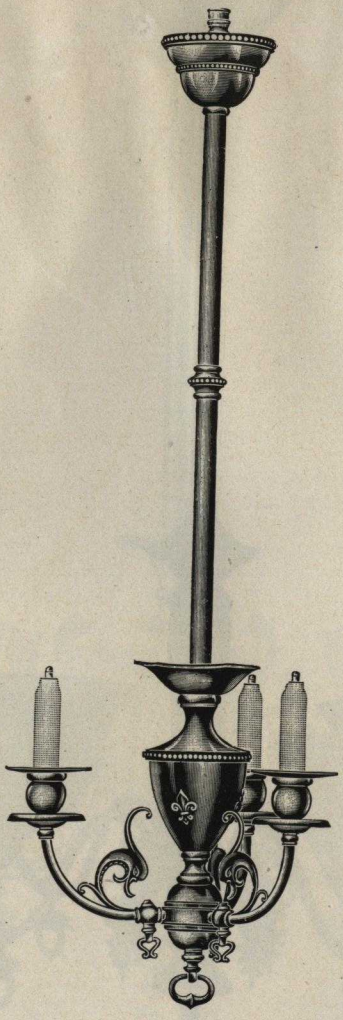
Rich Gilt. Length, 36 inches; Spread, 18 inches

2 Light.....$16.00 3 Light.....$19.00

4 Light.....$22.00

Globes not included

Order by catalogue numbers



No. 1314

Brushed Brass. Length, 36 inches. Spread, 12 inches

3 Lights.....$18.00

Candles included

Order by catalogue numbers

EXTRA

12-inch corrugated green dome No. 123. See plate 1008.

Use Welsbach or Argand Burner. See plates 1028-1053.

No. 1310

Rich Gilt and Mat. Length, 36 inches; Spread, 28 inches

4 Lights.....$30.00

Center Burner and Dome not included. Candles included

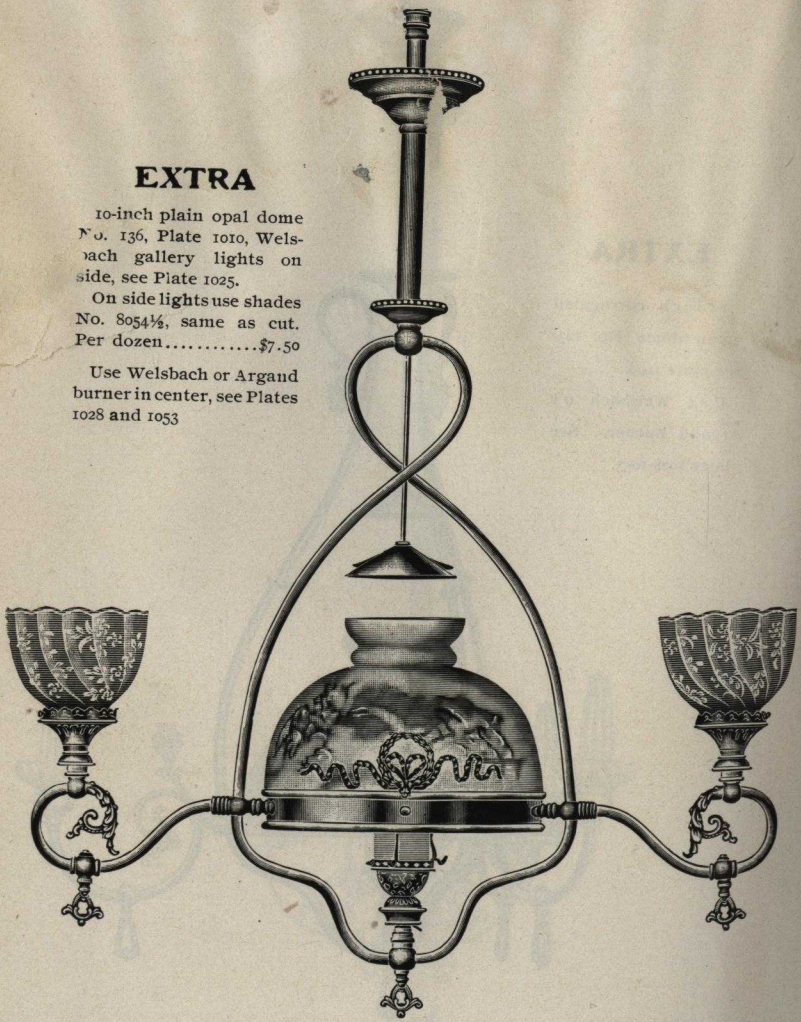
Order by catalogue numbers

EXTRA

10-inch plain opal dome No. 136, Plate 1010, Welsbach gallery lights on side, see Plate 1025.

On side lights use shades No. 8054½, same as cut. Per dozen.....$7.50

Use Welsbach or Argand burner in center, see Plates 1028 and 1053



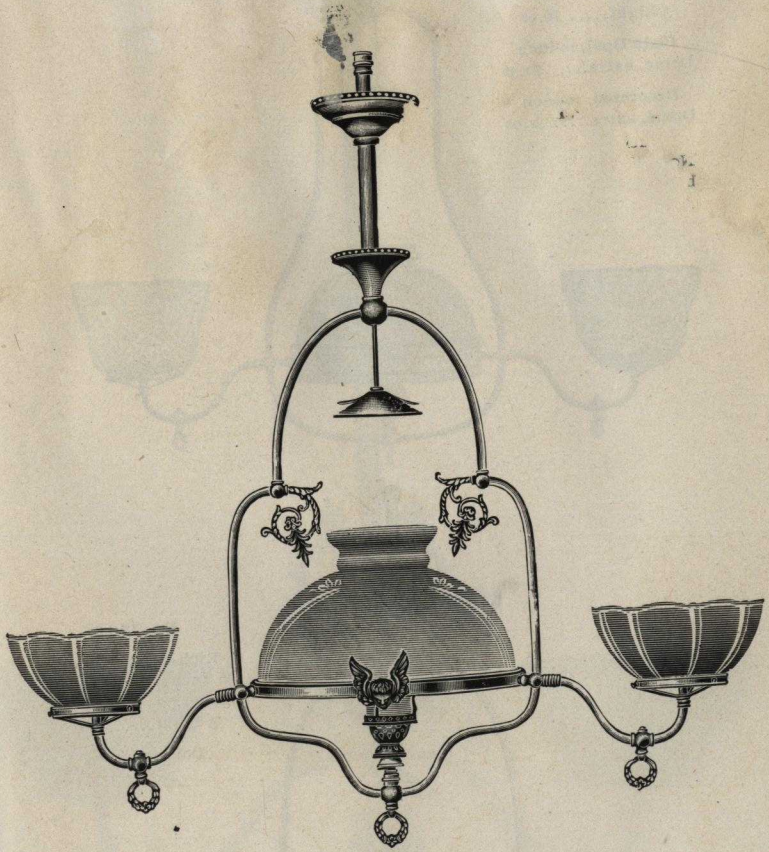
No. 1318

Rich Gilt. Length, 36 inches; Spread, 24 inches

3 Lights.....$15.00

Glassware or burners not included

Order by catalogue numbers



No. 1315

Rich Gilt and Mat. Length, 36 inches; Spread, 26 inches

3 Lights.....$15.00

Glassware not included

Extra 12-inch Green Dome No. 124, Plate 1008. Gas Globes Plate 994

Use Welsbach or Argand Burner in center

See Plates 1028–1053

Order by catalogue numbers

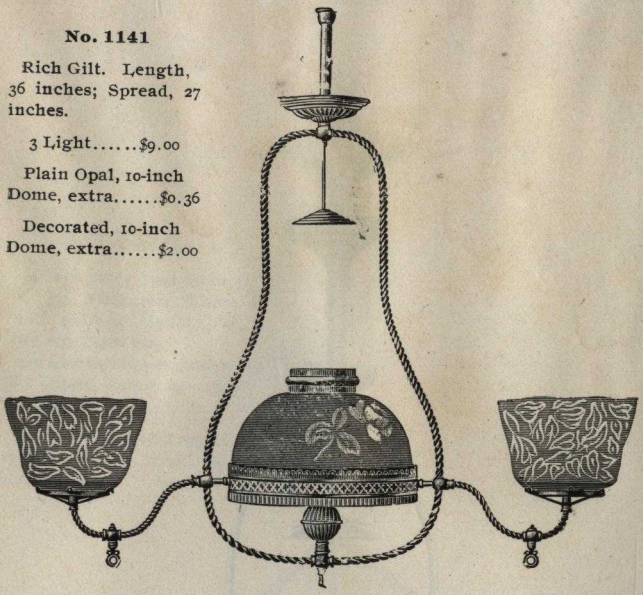
No. 1141

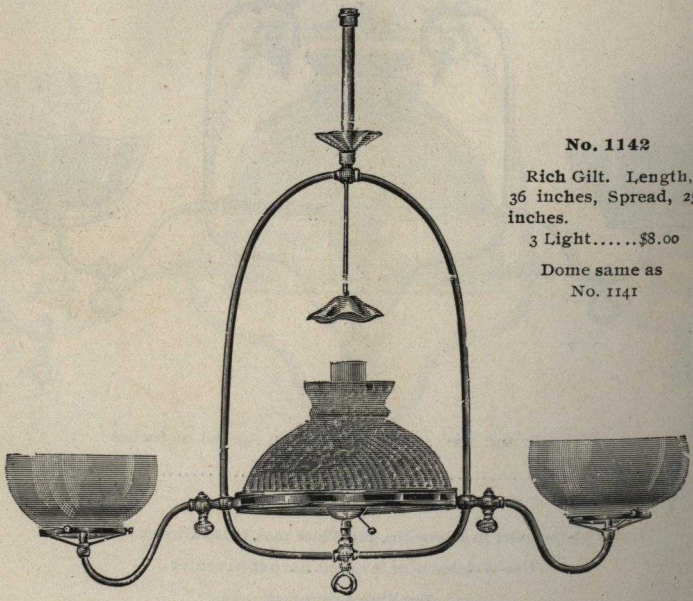
Rich Gilt. Length, 36 inches; Spread, 27 inches.

3 Light.....$9.00

Plain Opal, 10-inch Dome, extra.....$0.36

Decorated, 10-inch Dome, extra.....$2.00





No. 1142

Rich Gilt. Length, 36 inches, Spread, 25 inches.

3 Light.....$8.00

Dome same as No. 1141

Globes, Dome and Burners not included

Order by catalogue numbers

No. 1221

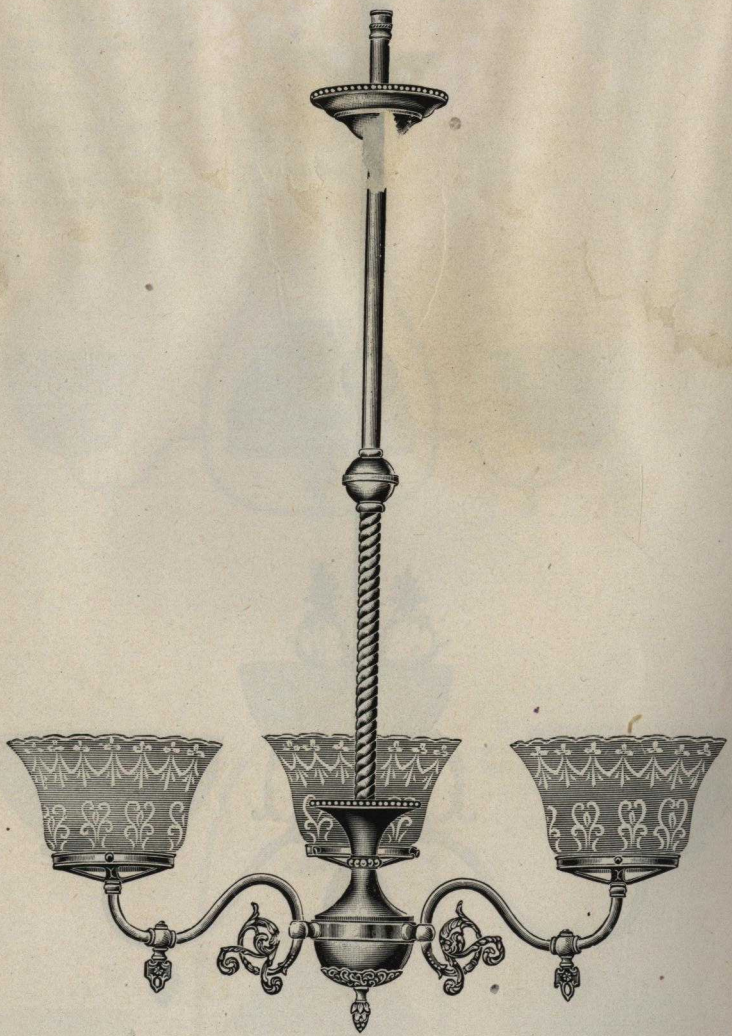
Rich Gilt. Length, 36 inches; Spread, 20 inches

2 Light.....$12.50 3 Light.....$15.50

4 Light.....$18.50

Globes not included

Order by catalogue numbers



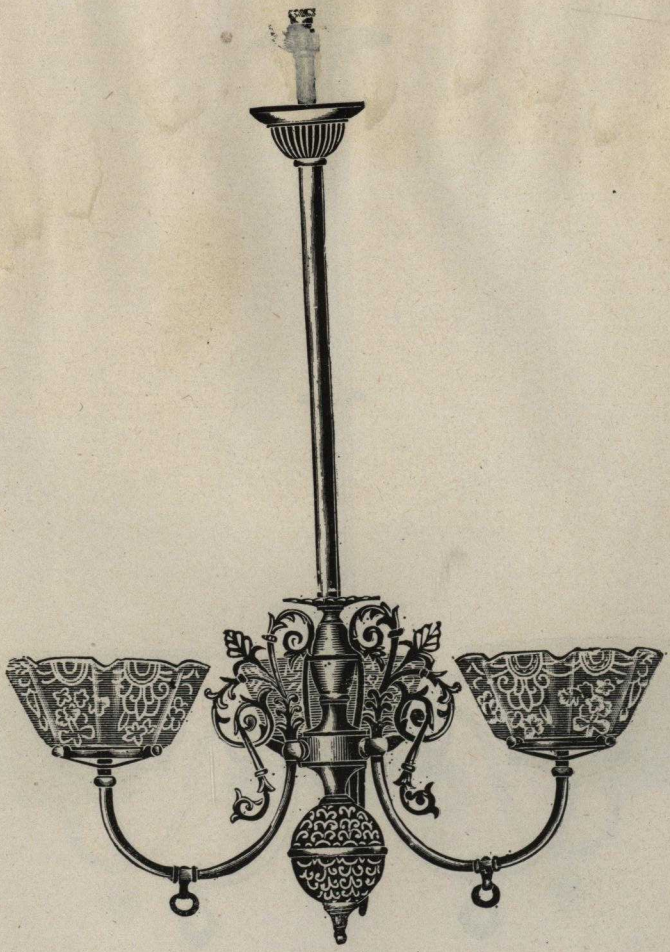
No. 1312

Rich Gilt and Mat. Length, 36 inches; Spread. 19 inches

2 Lights.....$7.25 3 Lights.....$9.00

Globes not included

Order by catalogue numbers



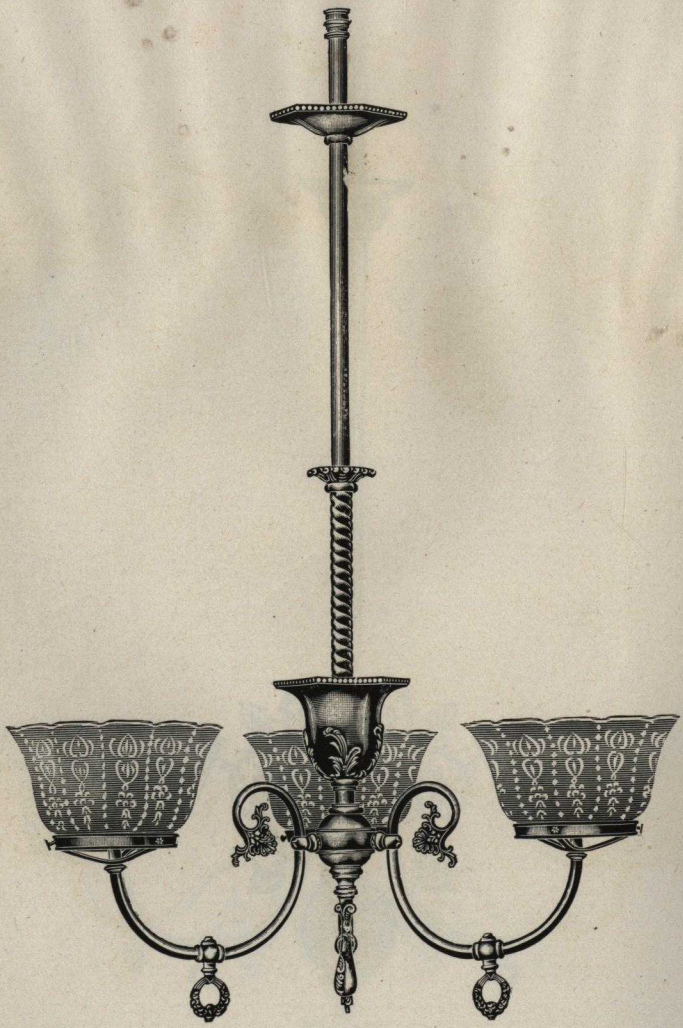
No. 1123

Rich Gilt. Length, 36 inches; Spread, 22 inches

2 Light	$ 9.00	4 Light	$15.00
3 "	12.00	5 "	18.00

Globes not included

Order by catalogue numbers



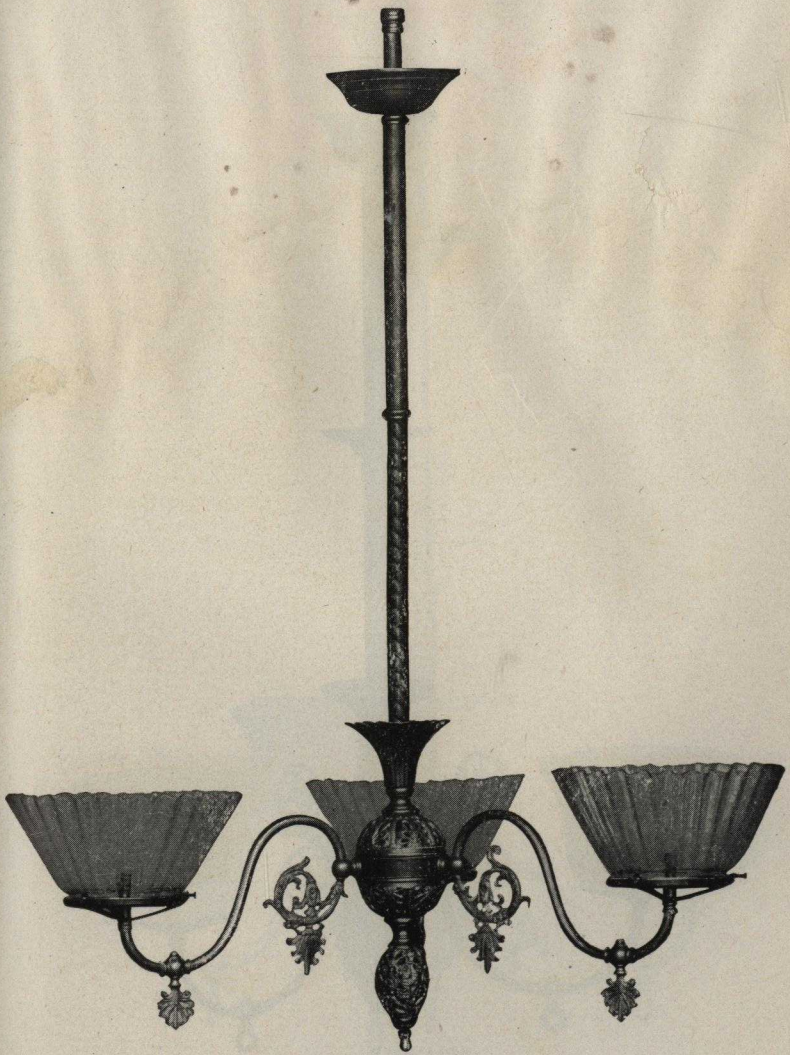
No. 1317

Rich Gilt and Mat. Length, 36 inches; Spread, 18 inches

2 Lights.....$10.50 3 Lights.....$12.75

Globes not included

Order by catalogue numbers



No. 1219

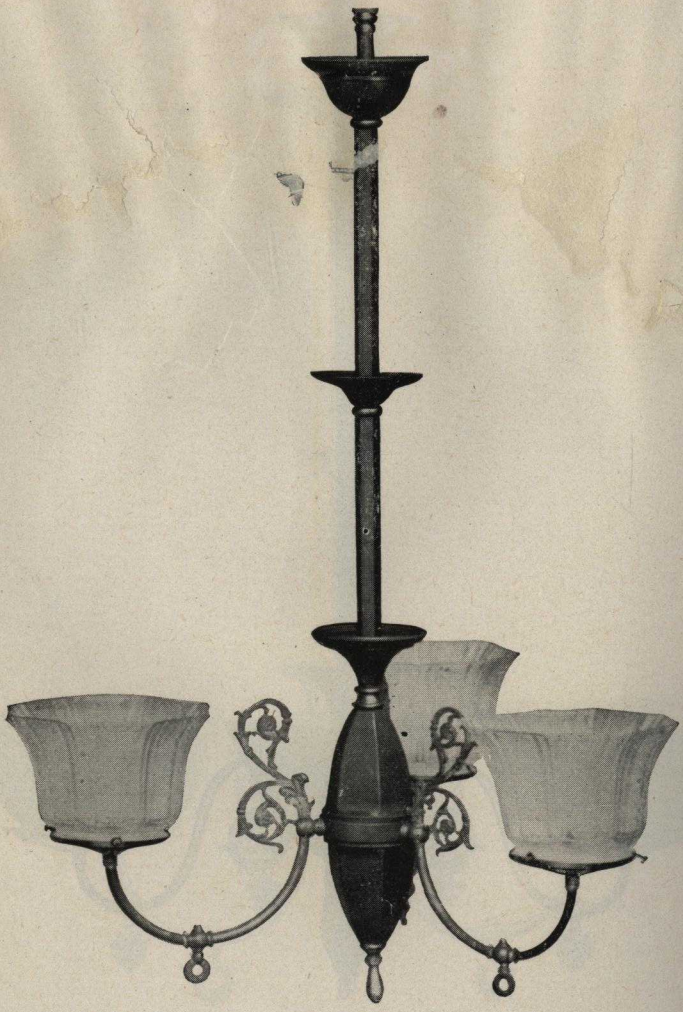
Rich Gilt. Length, 36 inches; Spread, 20 inches

2 Light.....$9.50 3 Light.....$12.00

4 Light.....$14.50

Globes not included

Order by catalogue numbers



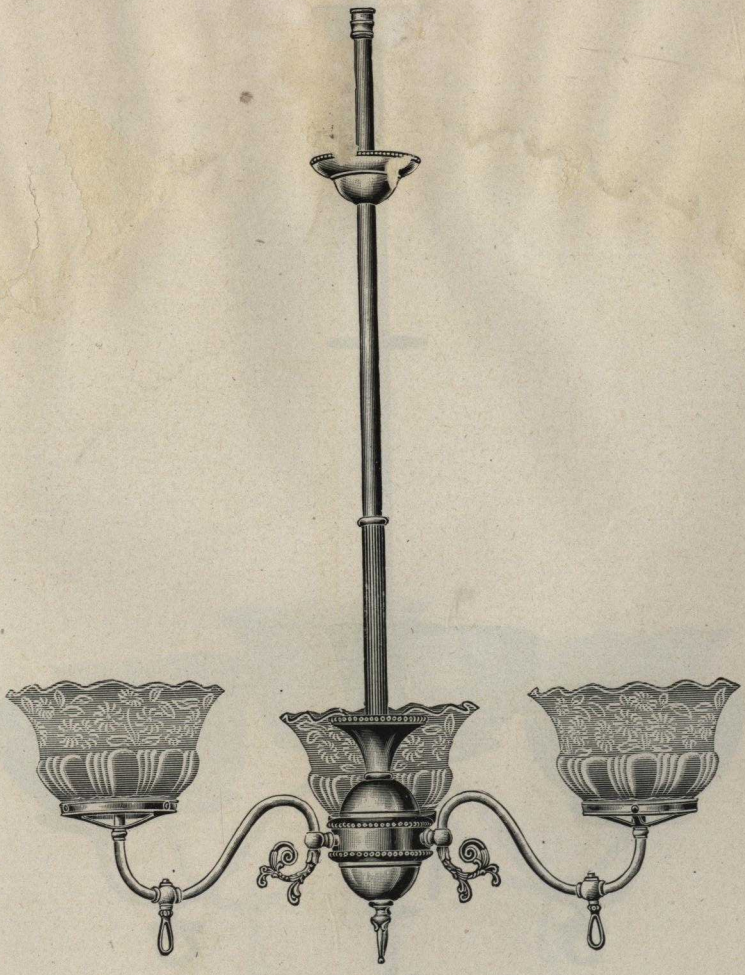
No. 1239

Rich Gilt. Length, 36 inches; Spread, 18 inches

2 Light	$ 8.00	4 Light	$12.00
3 "	10.00	5 "	14.00

Globes not included

Order by catalogue numbers



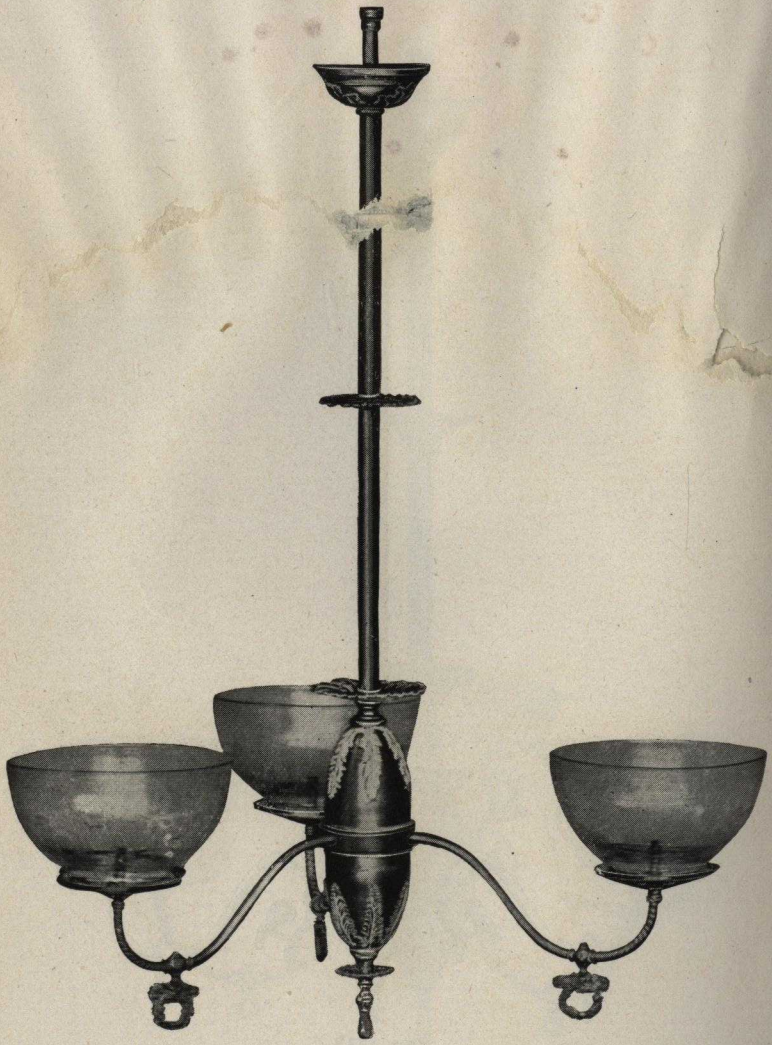
No. 1313

Rich Gilt and Mat. Length, 36 inches; Spread, 20 inches.

2 Lights.....$6.00 3 Lights.....$7.50

Globes not included.

Order by catalogue numbers



No. 1223

Rich Gilt. Length, 36 inches; Spread, 20 inches

2 Light.....$8.00 3 Light.....$10.00

4 Light.....$12.00

Globes not included

Order by catalogue numbers

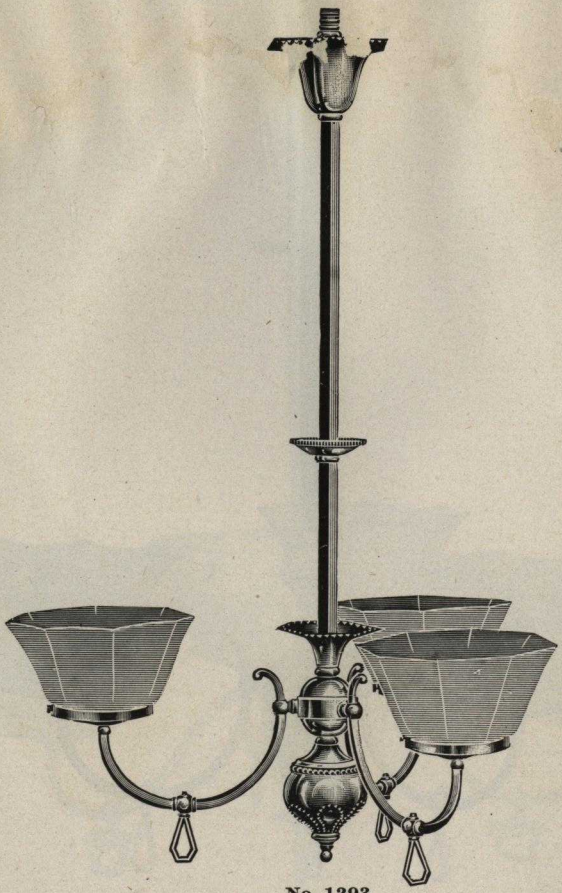
No. 1250

Brushed Brass. Length, 36 inches; Spread, 17 inches

2 Light	$ 8.00	4 Light	$12.00
3 "	10.00	5 "	14.00

Globes not included

Order by catalogue numbers



No. 1293

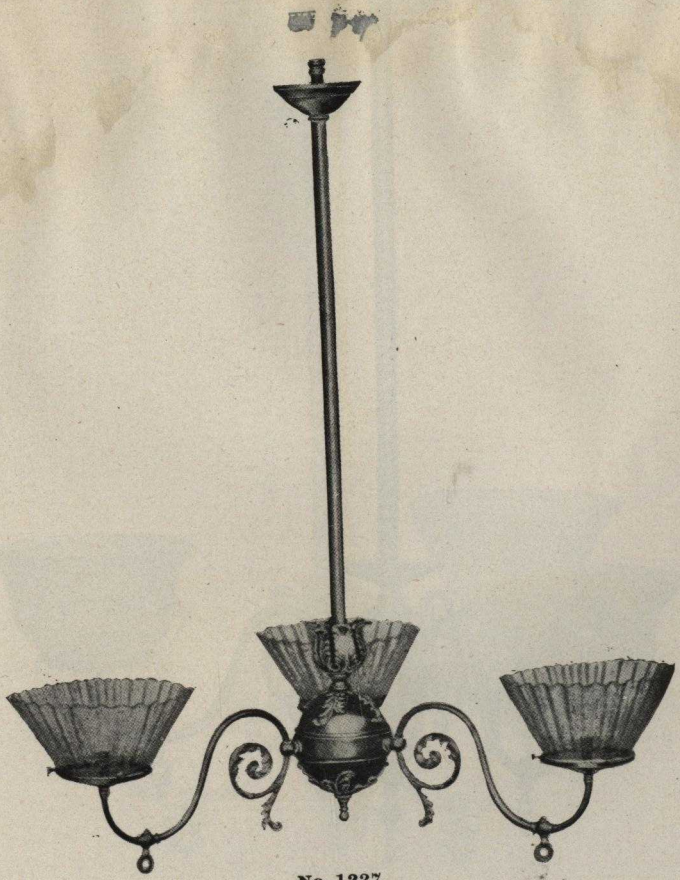
Rich Gilt and Mat. Length, 36 inches; Spread, 18 inches

2 Light.....$7.75 3 Light.....$9.75

4 Light.....$11.75

Globes not included

Order by catalogue numbers



No. 1227

Rich Gilt. Length, 36 inches; Spread, 24 inches

2 Light	$7.50	4 Light	$11.50
3 "	9.50	5 "	13.50

Globes not included

Order by catalogue numbers

No. 1231

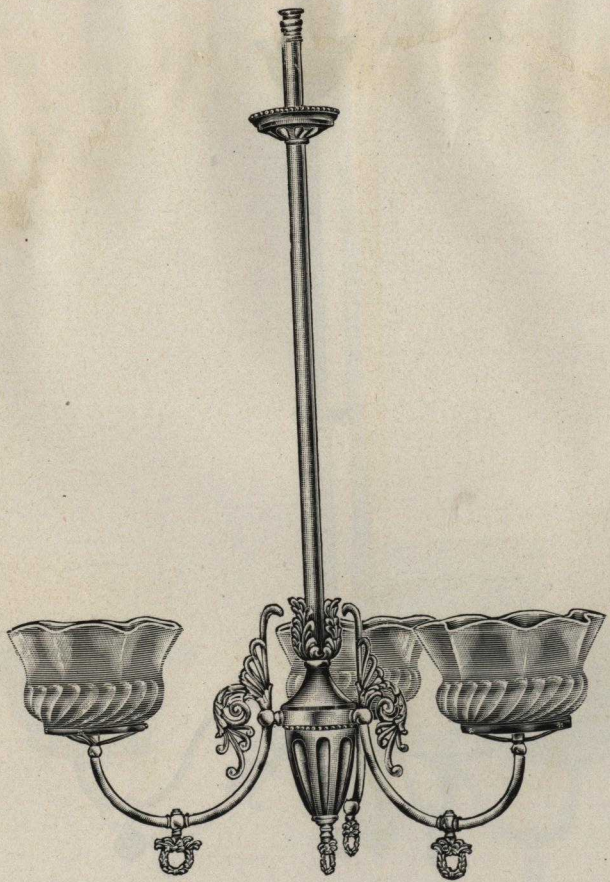
Rich Gilt. Length, 36 inches; Spread, 21 inches

2 Light.....$7.00 3 Light.....$9.00

4 Light.....$11.00

Globes not included

Order by catalogue numbers



No. 1294

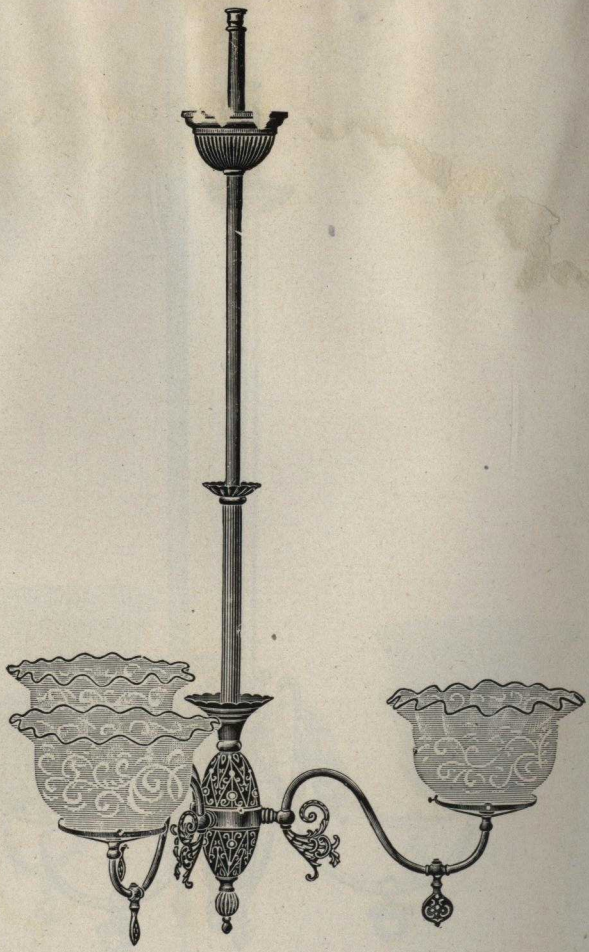
Rich Gilt and Mat. Length, 36 inches; Spread, 19 inches

Light.....$6.50 3 Light.....$8.50

4 Light.....$10.50

Globes not included

Order by catalogue numbers



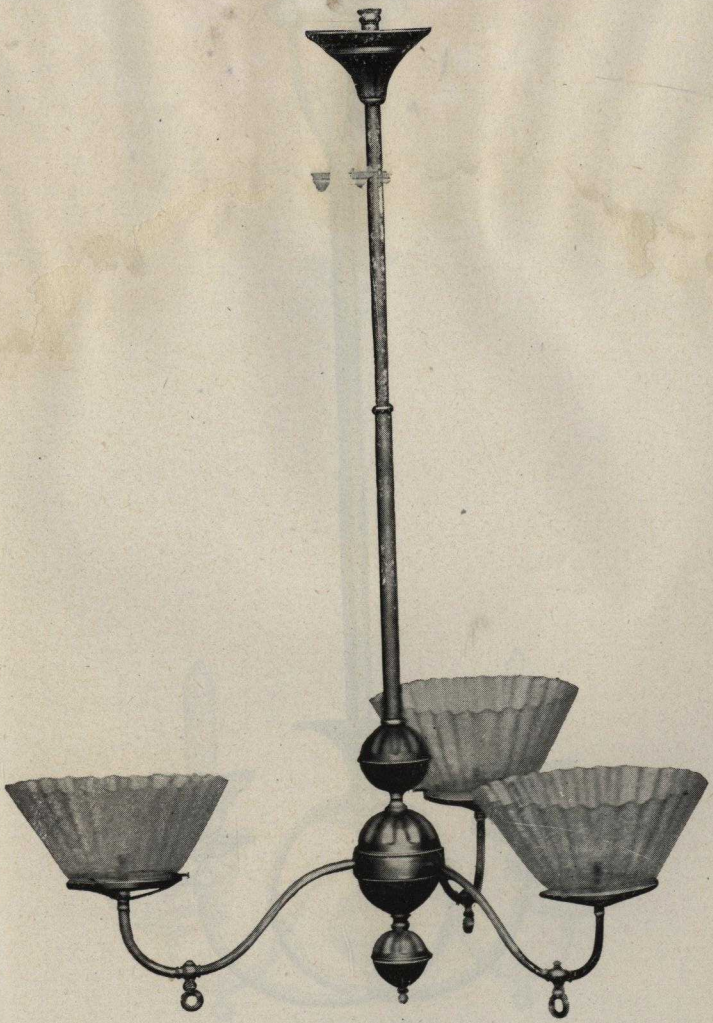
No. 1113

Rich Gilt. Length, 36 inches; Spread, 21 inches

2 Light.....$6.00 4 Light.....$ 9.00
" ..... 7.50 5 " 10.50

Globes not included

Order by catalogue numbers



No. 1259

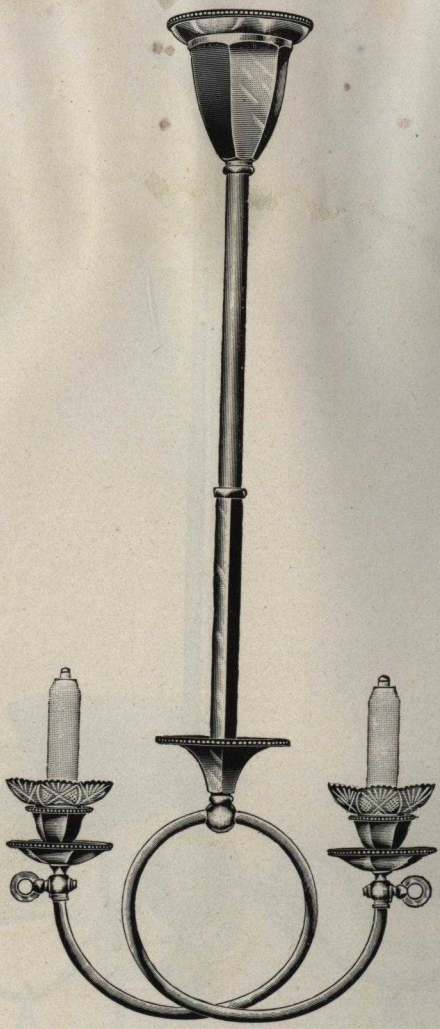
Rich Gilt. Length, 36 inches; Spread, 20 inches

2 Light.....$5.50 3 Light.....$6.50

4 Light.....$7.50

Globes not included

Order by catalogue numbers



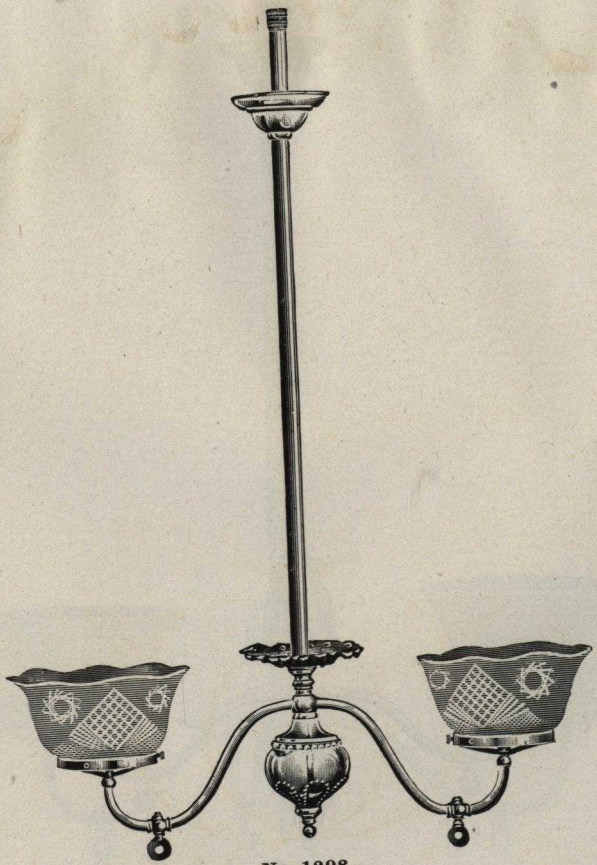
No. 1316

Rich Gilt. Length, 36 inches; Spread, 10 inches

Lights.....$5.50

Candles included

Order by catalogue numbers



No. 1298

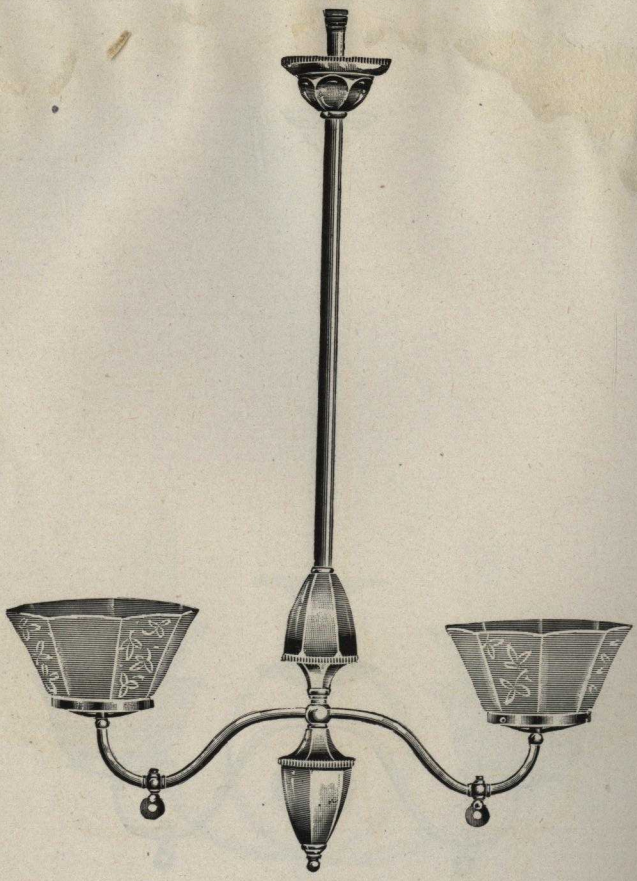
Rich Gilt and Mat. Length, 36 inches; Spread, 18 inches

2 Light.....$5.25 3 Light.....$6.25

4 Light.....$7.25

Globes not included

Order by catalogue numbers



No. 1300

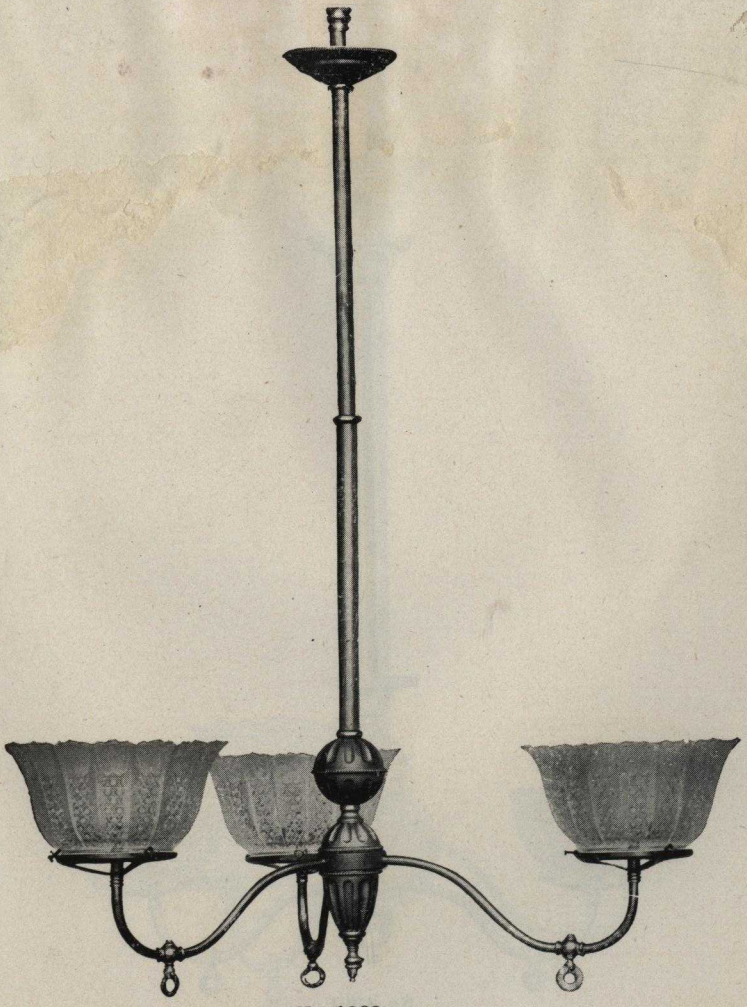
Rich Gilt and Mat. Length, 36 inches; Spread, 19 inches

2 Light.....$5.00 3 Light.....$6.00

4 Light.....$7.00

Globes not included

Order by catalogue numbers



No. 1262

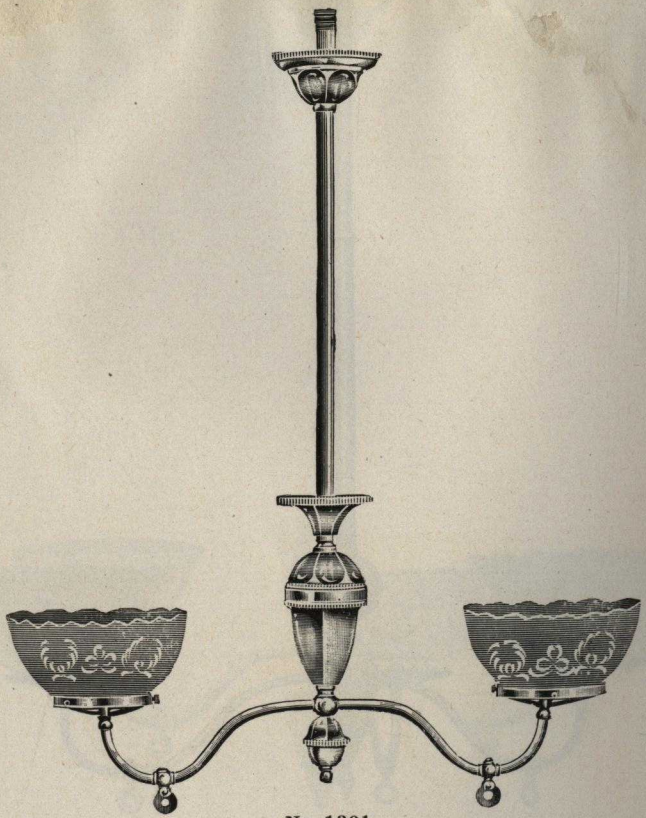
Rich Gilt. Length, 36 inches; Spread, 20 inches

2 Light.....$5.00 3 Light.....$6.00

4 Light.....$7.00

Globes not included

Order by catalogue numbers



No. 1301

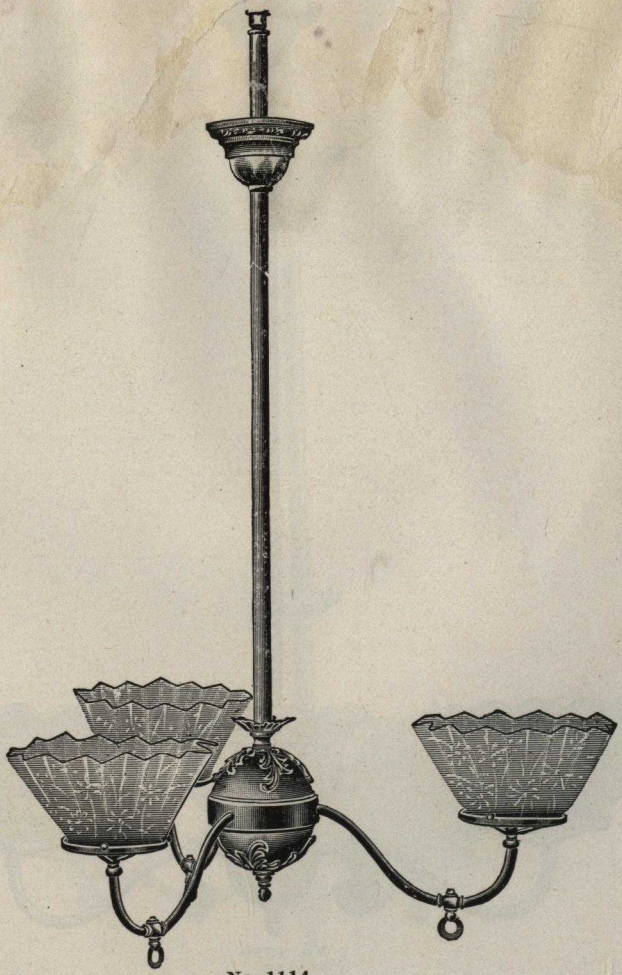
Rich Gilt and Mat. Length, 36 inches; Spread, 19 inches

2 Light.....$4.75 3 Light.....$5.75

4 Light.....$6.75

Globes not included

Order by catalogue numbers



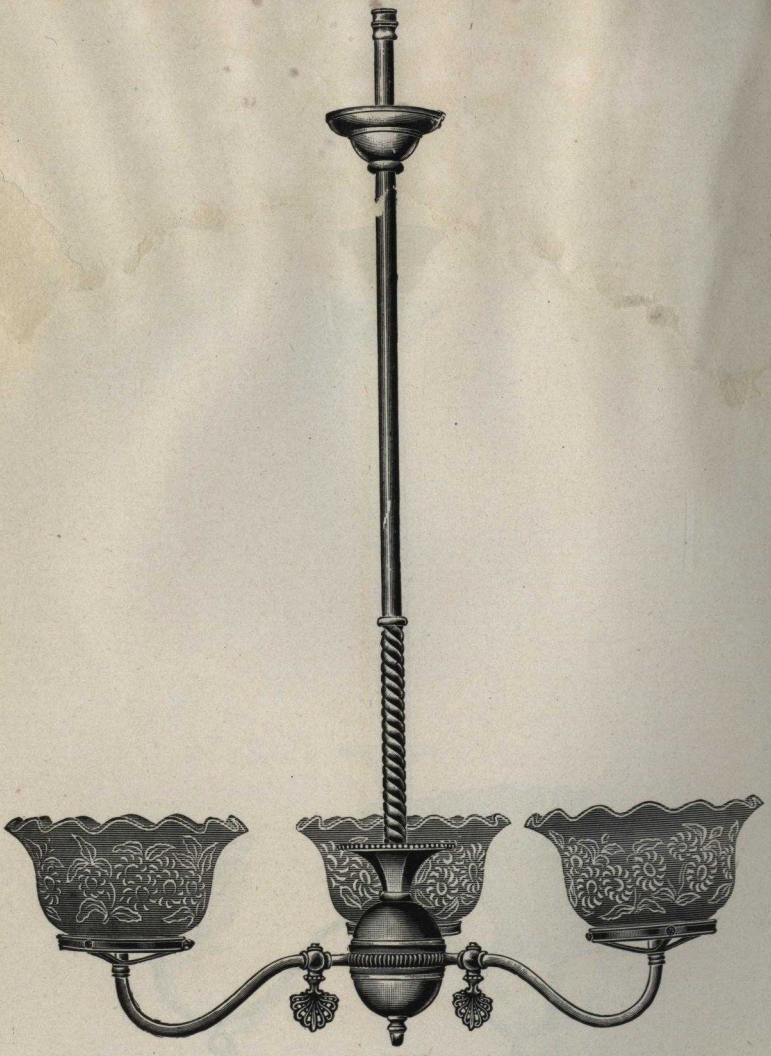
No. 1114

Rich Gilt. Length, 36 inches; Spread, 20 inches

2 Light	$4.75	4 Light	$6.75
3 "	5.75	5 "	7.75

Globes not included

Order by catalogue numbers



No. 1319

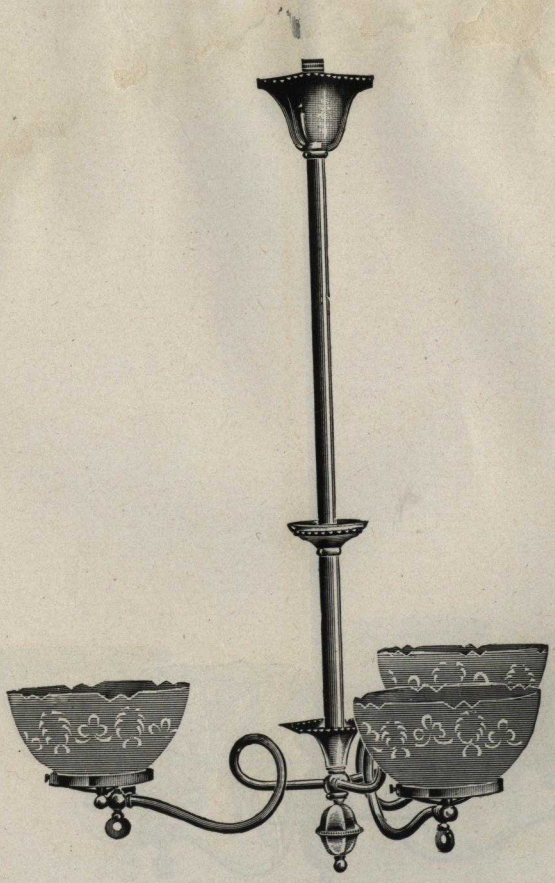
Rich Gilt and Mat. Length, 36 inches; Spread, 20 inches

2 Lights.....$4.50 3 Lights.....$5.50

4 Lights.....$6.50

Globes not included

Order by catalogue numbers



No. 1304

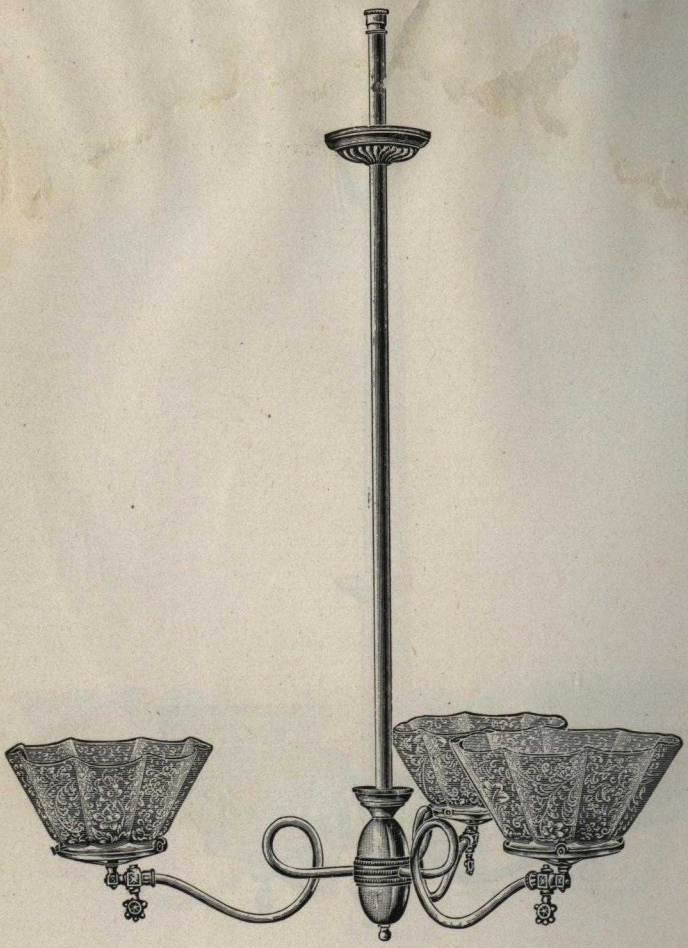
Rich Gilt. Length, 36 inches; Spread, 20 inches

2 Light.....$4.25 3 Light.....$5.25

4 Light.....$6.25

Globes not included

Order by catalogue numbers



No. 1145

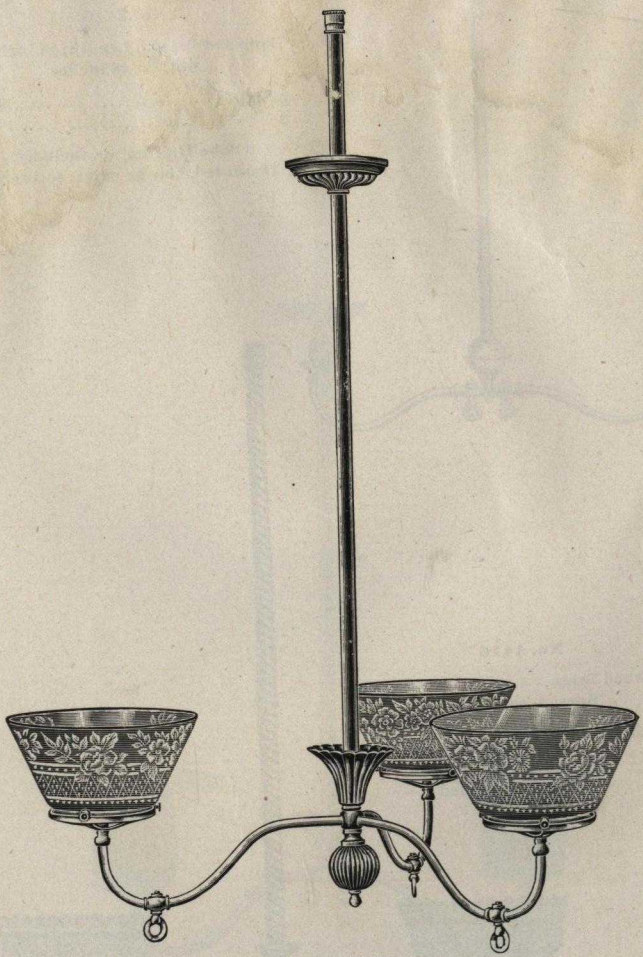
Rich Gilt. Length, 36 inches; Spread, 20 inches

2 Light.....$4.00 3 Light.....$5.00

4 Light.....$6.00

Globes not included

Order by catalogue numbers



No. 1147

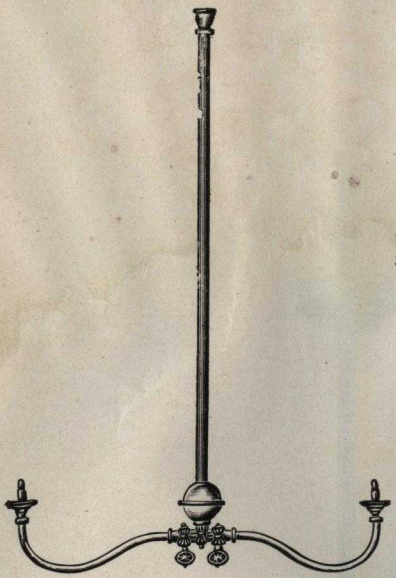
Rich Gilt. Length, 36 inches; Spread, 20 inches

2 Light.....$3.50 3 Light.....$4.50

4 Light.....$5.50

Globes not included

Order by catalogue numbers



No. 1115

Polished Brass. Length, 36 inches;
Spread, 18 inches

2 Light.....
3 " .....

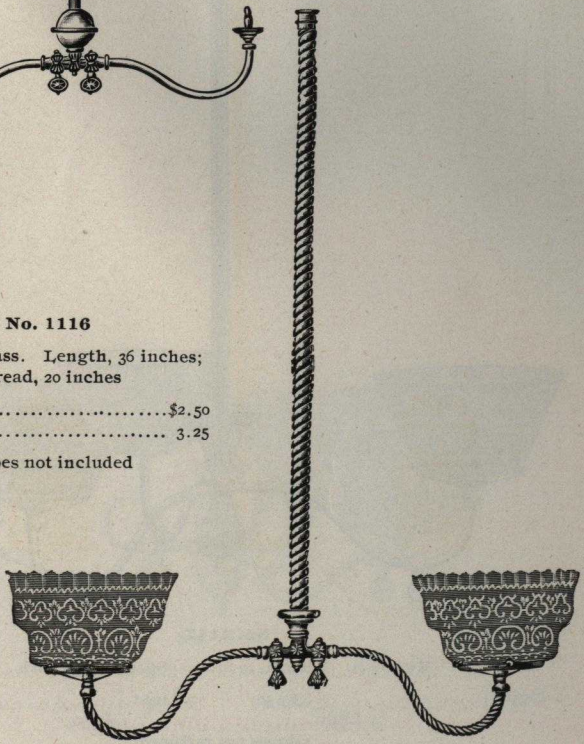
Globe Hol
If wanted, charge ex

No. 1116

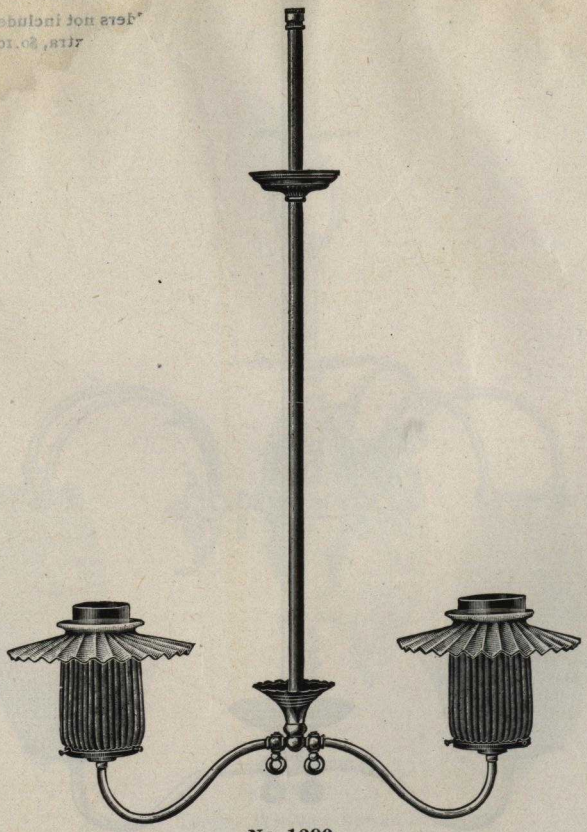
Polished Brass. Length, 36 inches;
Spread, 20 inches

2 Light.....$2.50
3 " 3.25

Globes not included



Order by catalogue numbers



No. 1290

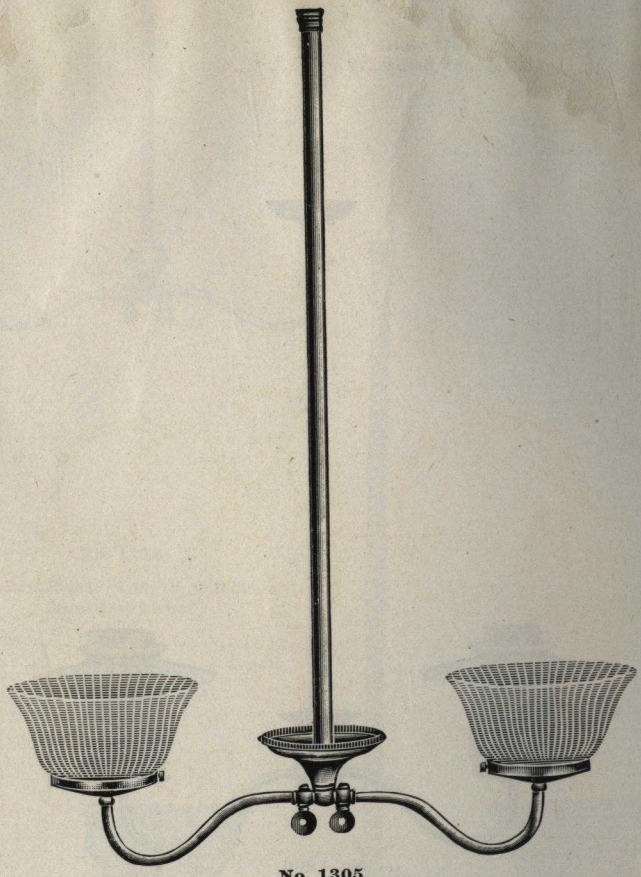
Rich Gilt. Length, 36 inches; Spread, 18 inches

2 Light.....$2.50 3 Light.....$3.50

4 Light.....4.50

Globes not included

Order by catalogue numbers



No. 1305

Rich Gilt and Mat. Length, 36 inches; Spread, 18 inches

2 Light.....$2.25 3 Light.....$3.00

4 Light.....$3.75

Globes not included

Order by catalogue numbers

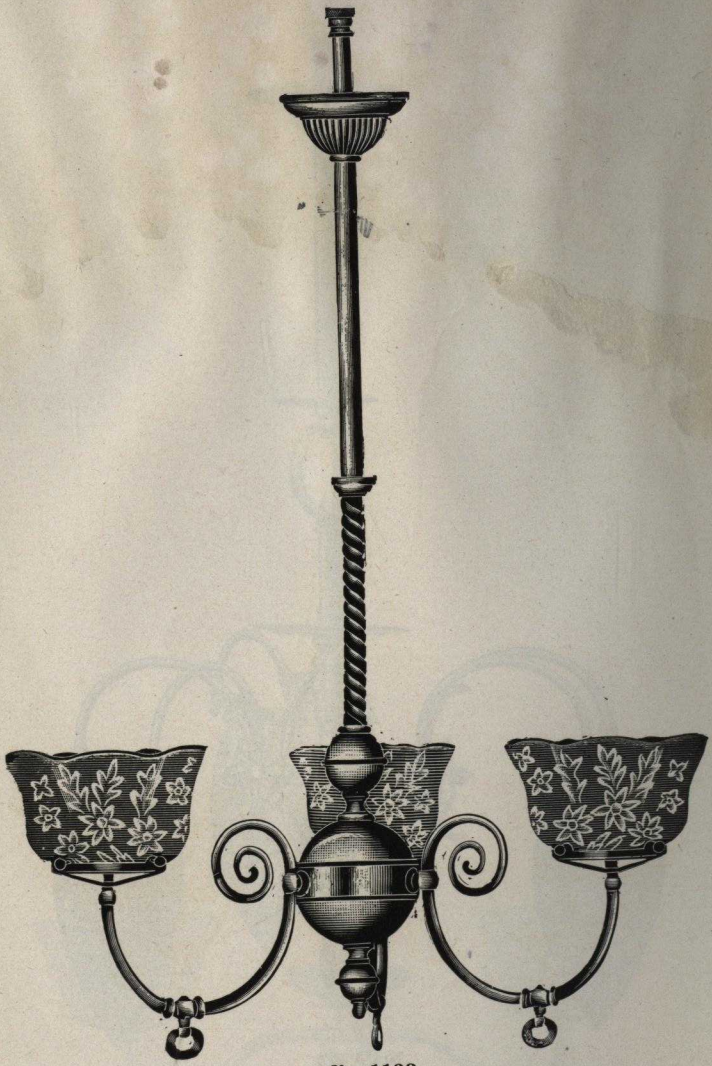
No. 1292

Rich Gilt. Length, 36 inches; Spread, 22 inches

2 Light	$29.80	4 Light	$46.60
3 "	38.20	5 "	55.20
6 Light		$63.40	

Kern Gasolier furnished complete with etched stalactites
No. 2 Burners and Mantles

Order by catalogue numbers



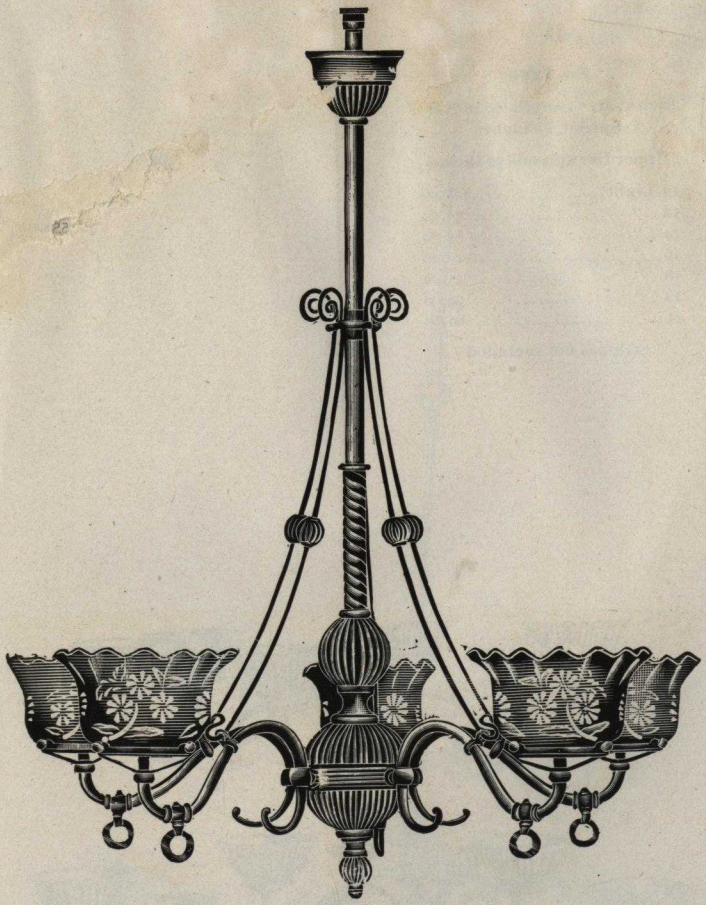
No. 1138

Rich Gilt. Length, 36 inches; Spread, 23 inches

2 Light	$ 8.00	6 Light	$16.00
3 "	10.00	8 "	20.00
4 "	12.00	10 " 2 tiers of lights	28.00
5 "	14.00	12 " " "	32.00

Globes not included

Order by catalogue numbers



No. 1139

Rich Gilt. Length, 36 inches; Spread, 30 inches

2 Light	$11.00	5 Light	$21.50
3 "	14.50	6 "	25.00
4 "	18.00	8 "	28.50

12 Light, 2 tiers of lights.....$50.00

Globes not included

Order by catalogue numbers

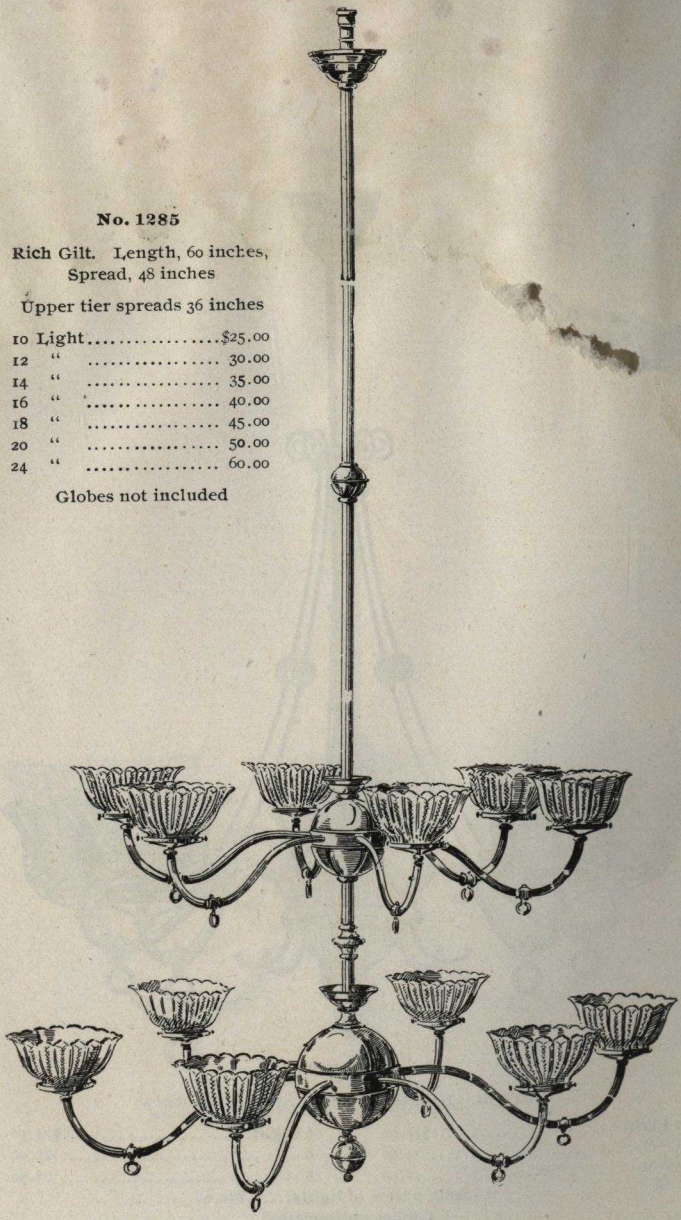
No. 1285

Rich Gilt. Length, 60 inches, Spread, 48 inches

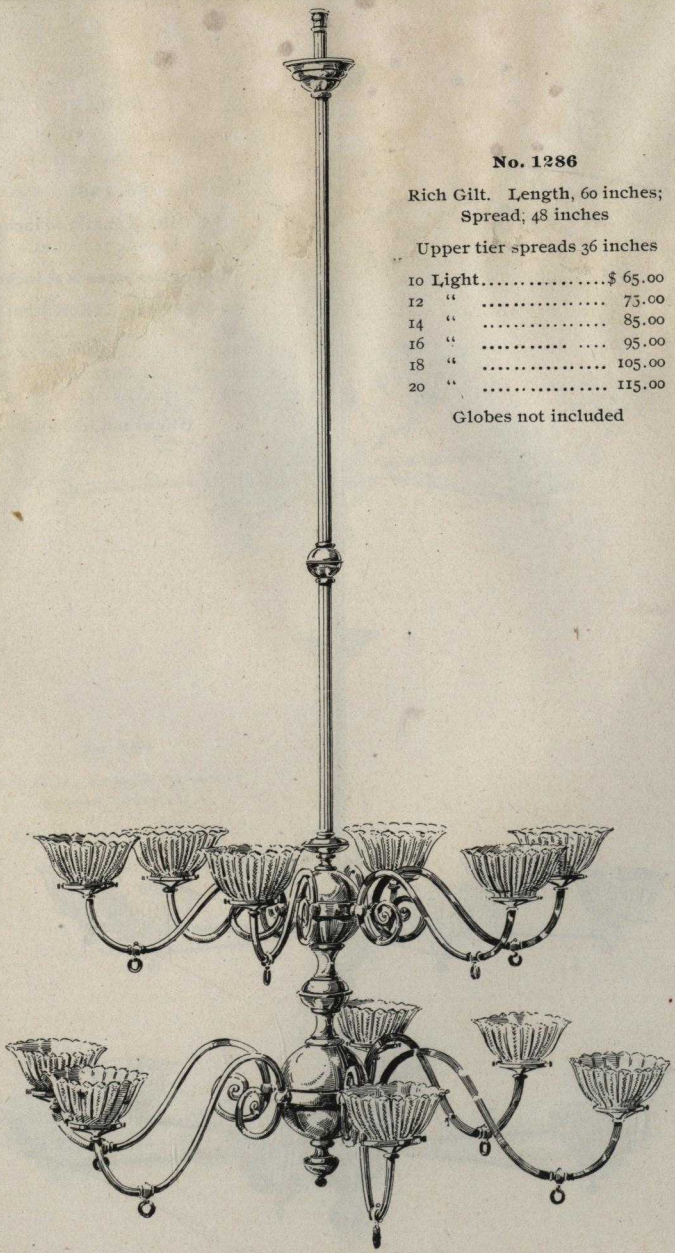
Upper tier spreads 36 inches

10	Light	$25.00
12	"	30.00
14	"	35.00
16	"	40.00
18	"	45.00
20	"	50.00
24	"	60.00

Globes not included



Order by catalogue numbers



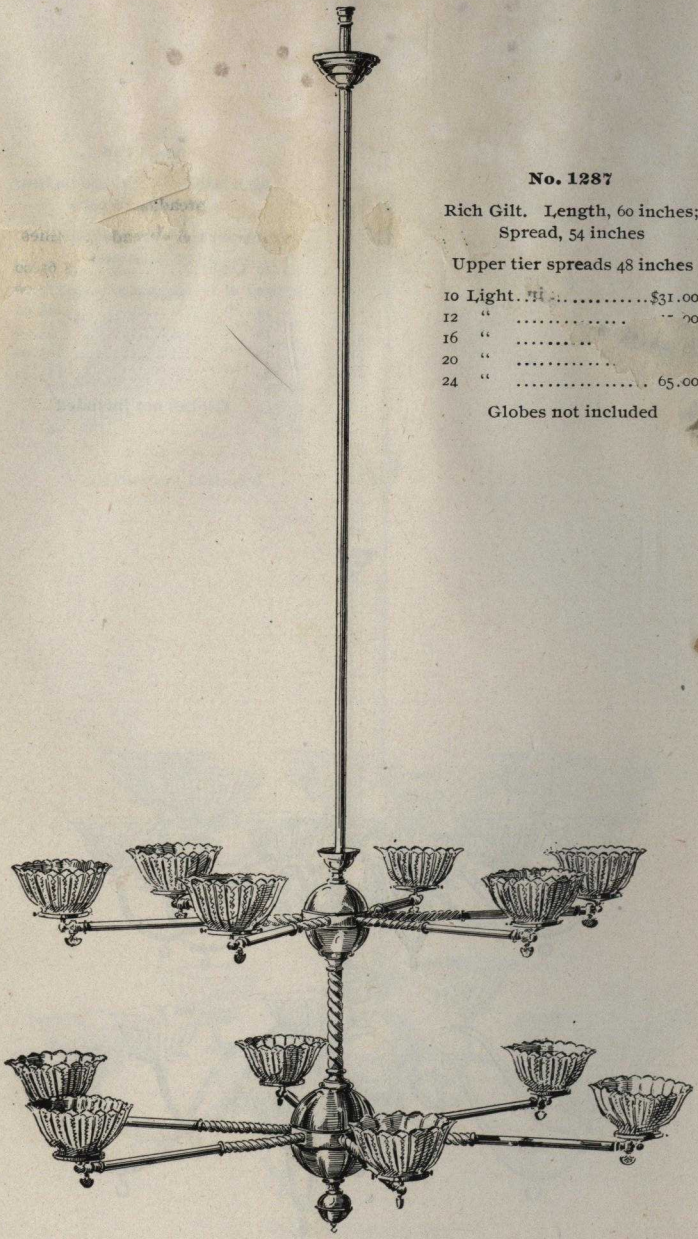
No. 1286

Rich Gilt. Length, 60 inches; Spread, 48 inches

Upper tier spreads 36 inches

10	Light	$ 65.00
12	"	75.00
14	"	85.00
16	"	95.00
18	"	105.00
20	"	115.00

Globes not included



No. 1287

Rich Gilt. Length, 60 inches;
Spread, 54 inches

Upper tier spreads 48 inches

10	Light	$31.00
12	"	[illegible]
16	"	[illegible]
20	"	[illegible]
24	"	65.00

Globes not included

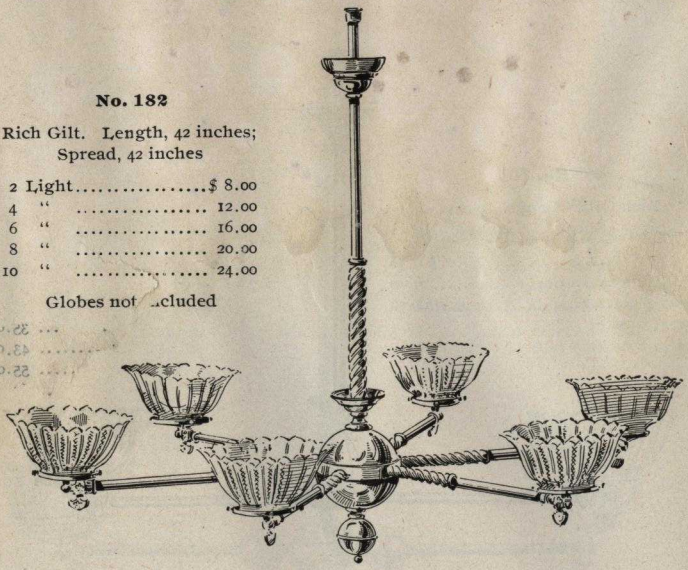
Order by catalogue numbers

No. 182

Rich Gilt. Length, 42 inches;
Spread, 42 inches

2	Light	$ 8.00
4	"	12.00
6	"	16.00
8	"	20.00
10	"	24.00

Globes not included

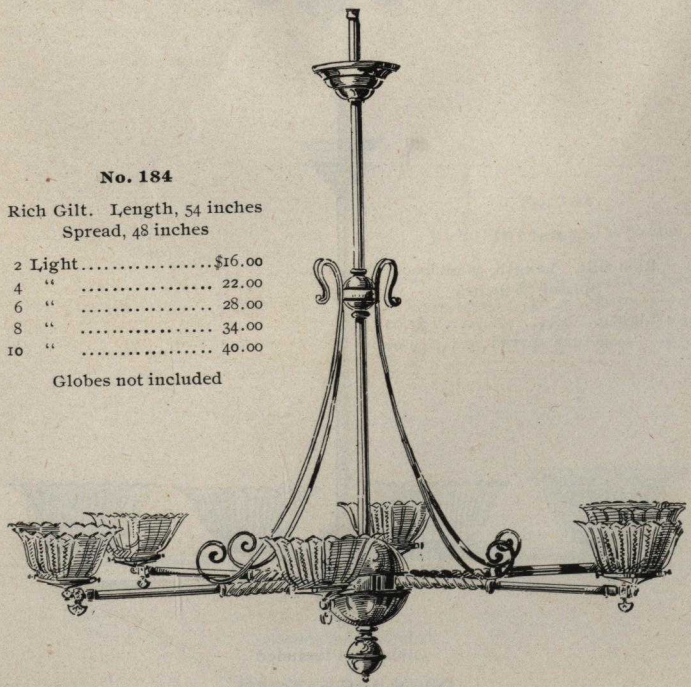


No. 184

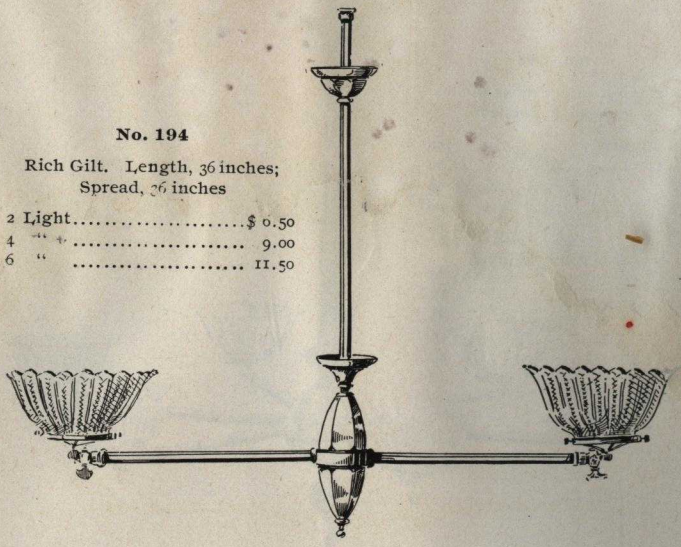
Rich Gilt. Length, 54 inches
Spread, 48 inches

2	Light	$16.00
4	"	22.00
6	"	28.00
8	"	34.00
10	"	40.00

Globes not included



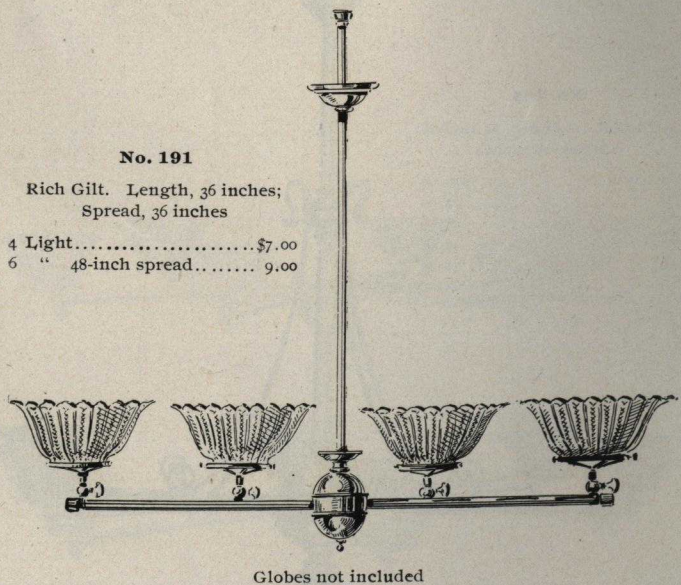
Order by catalogue numbers



No. 194

Rich Gilt. Length, 36 inches;
Spread, 36 inches

2 Light.....$ 6.50
4 " 9.00
6 " 11.50



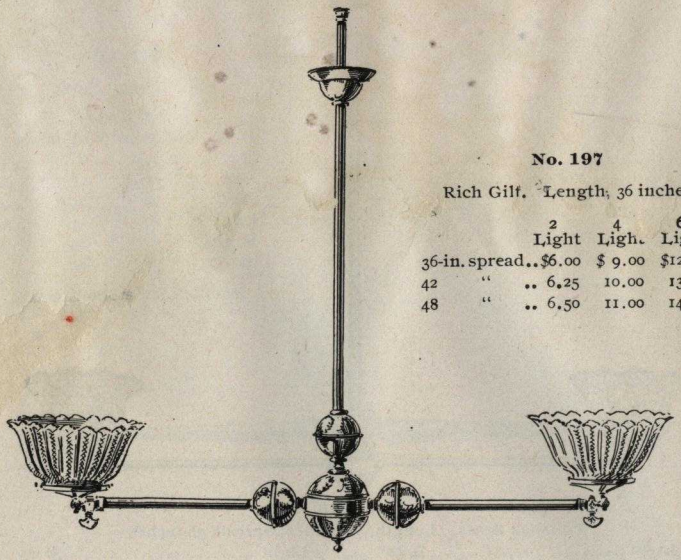
No. 191

Rich Gilt. Length, 36 inches;
Spread, 36 inches

4 Light.....$7.00
6 " 48-inch spread..... 9.00

Globes not included

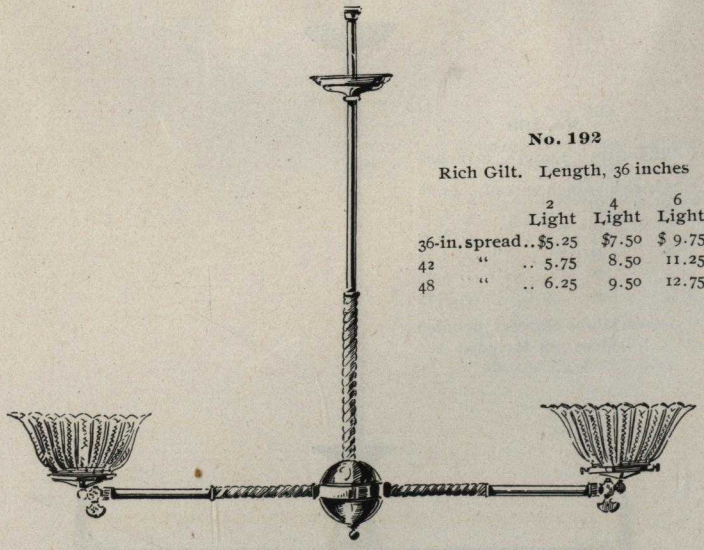
Order by catalogue numbers



No. 197

Rich Gilt. Length, 36 inches

	2 Light	4 Light	6 Light
36-in. spread..	$6.00	$ 9.00	$12.00
42 " ..	6.25	10.00	13.25
48 " ..	6.50	11.00	14.50



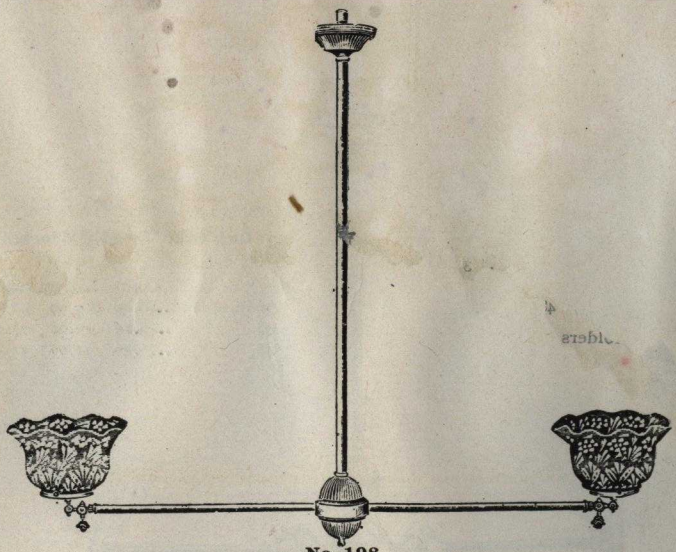
No. 192

Rich Gilt. Length, 36 inches

	2 Light	4 Light	6 Light
36-in. spread..	$5.25	$7.50	$ 9.75
42 " ..	5.75	8.50	11.25
48 " ..	6.25	9.50	12.75

Globes not included

Order by catalogue numbers

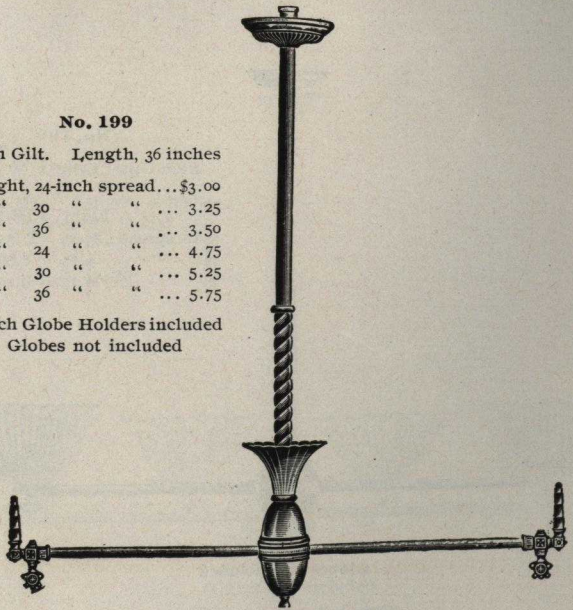


No. 198

Polished Brass. Length, 36 inches; Spread, 36 inches

2 Light.....$4.00 4 Light.....$6.25

6 Light.....$8.50



No. 199

Rich Gilt. Length, 36 inches

2 Light,	24-inch	spread	...	$3.00
2 "	30 "	"	...	3.25
2 "	36 "	"	...	3.50
4 "	24 "	"	...	4.75
4 "	30 "	"	...	5.25
4 "	36 "	"	...	5.75

4-inch Globe Holders included
Globes not included

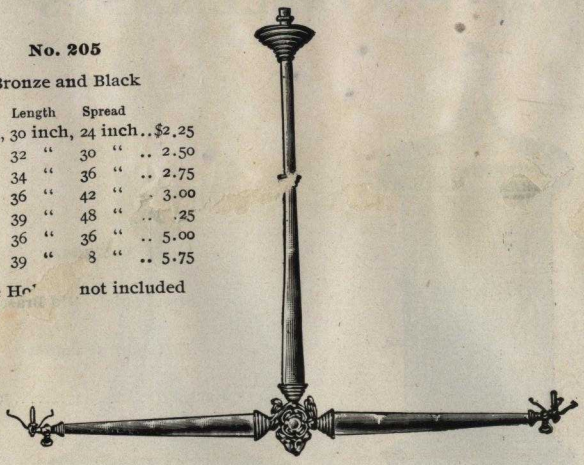
Order by catalogue numbers

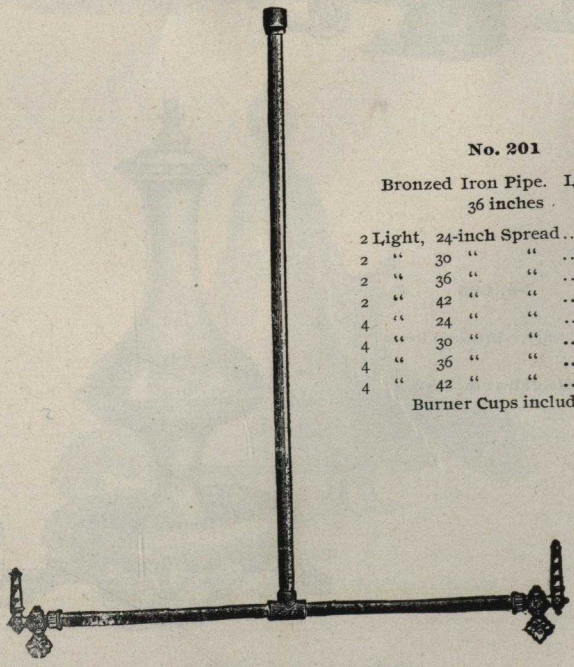
No. 205

Bronze and Black

	Length	Spread	
2 Light,	30 inch,	24 inch	$2.25
2 "	32 "	30 "	2.50
2 "	34 "	36 "	2.75
2 "	36 "	42 "	3.00
2 "	39 "	48 "	.25
4 "	36 "	36 "	5.00
4 "	39 "	8 "	5.75

Globe Ho[illegible] not included





No. 201

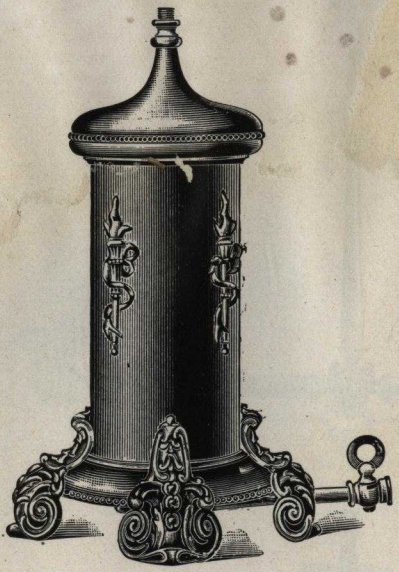
Bronzed Iron Pipe. Length, 36 inches

2 Light,	24-inch	Spread	.....	$1.75
2 "	30 "	"	.....	1.85
2 "	36 "	"	.....	1.95
2 "	42 "	"	.....	2.05
4 "	24 "	"	.....	2.25
4 "	30 "	"	.....	2.45
4 "	36 "	"	.....	2.65
4 "	42 "	"	.....	2.85

Burner Cups included

Order by catalogue numbers

GAS PORTABLE LAMPS



No. 694

Stand only. Old Brass

Height, 12 inches

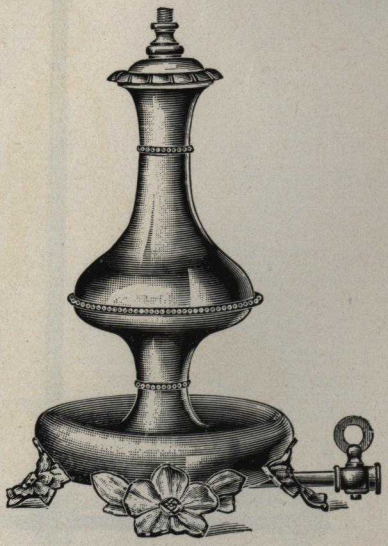
Each.....$7.00

No. 695

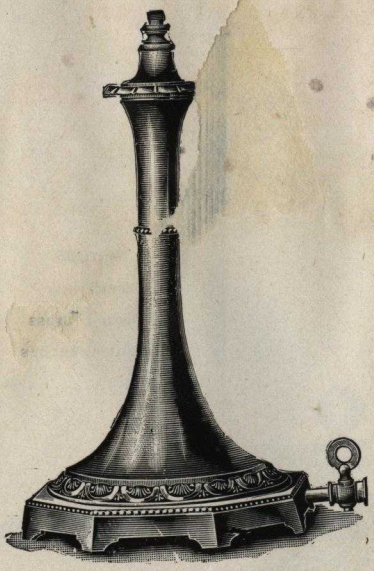
Stand only. Brushed Brass

Height, 11 inches

Each.....$6.50



Order by catalogue numbers

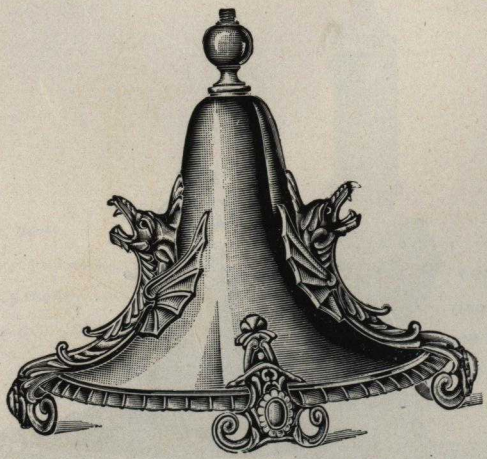


No. 688

Stand only. Brushed Brass

Height, 13 inches

Each.....$6.00

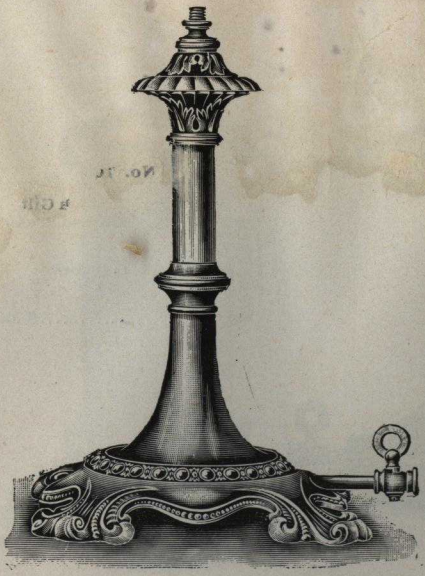


No. 689

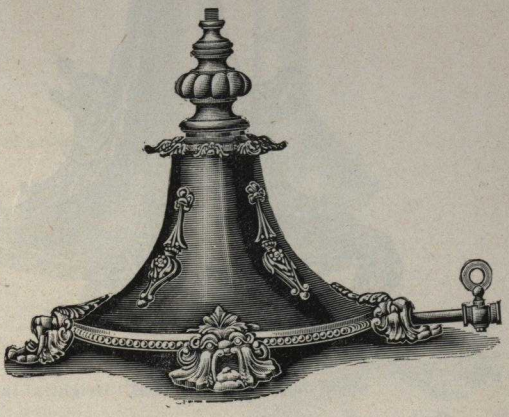
Stand only. Brushed Brass. Height, 11 inches

Each.....$9.60

Order by catalogue numbers

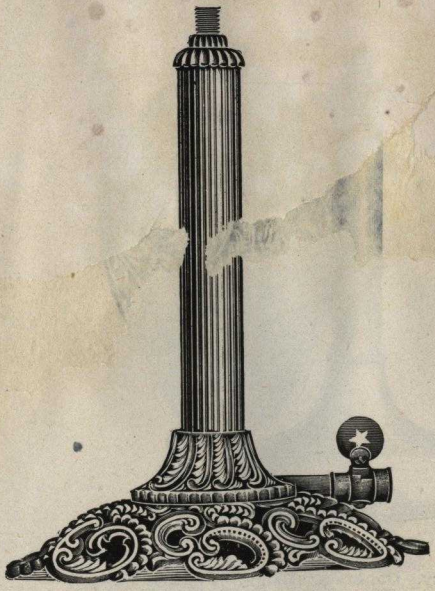


No. 698
Stand only
Brushed Brass
Height, 12 inches
Each.....$6.00

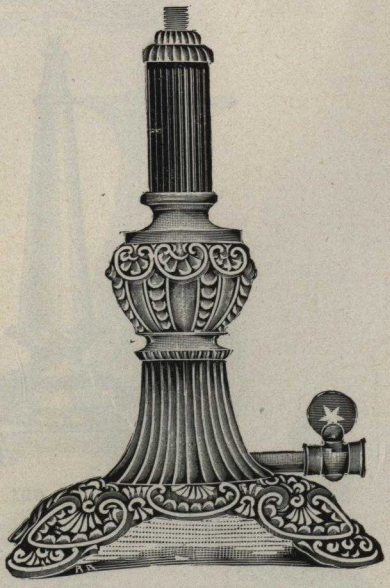


No. 699
Stand only
Brushed Brass
Height, 8 inches
Each.....$6.50

Order by catalogue numbers



Stand only. Ric
Height, 9 inches
Each.....$1.60



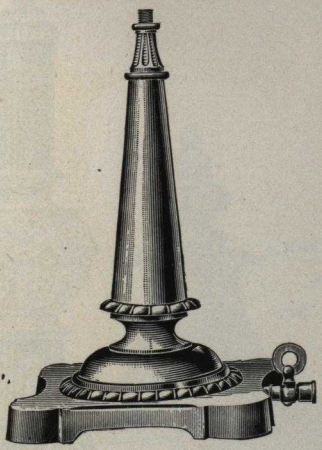
No. 706
Stand only. Rich Gilt
Height, 9 inches
Each..... $2.70

Order by catalogue numbers

No. 690

Stand only. Old Brass. Height, 11 inches

Each.....$3.50



No. 691

Stand only. Brushed Brass. Height, 10 inches

Each.....$6.00

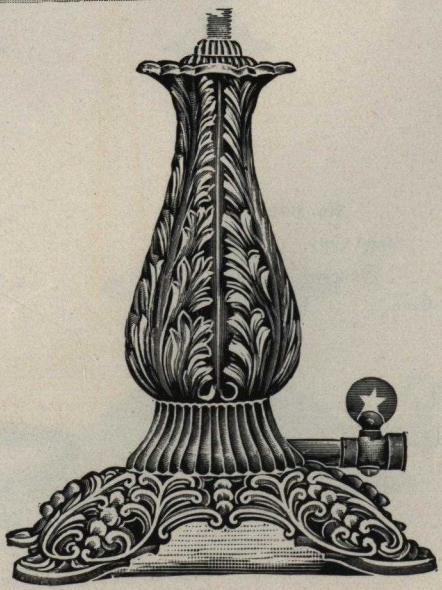
Order by catalogue numbers

No. 703

Stand only. Rich Gilt

Height, 10 inches

Each.....$4.25



No. 704

Stand only. Rich Gilt

Height, 8 inches

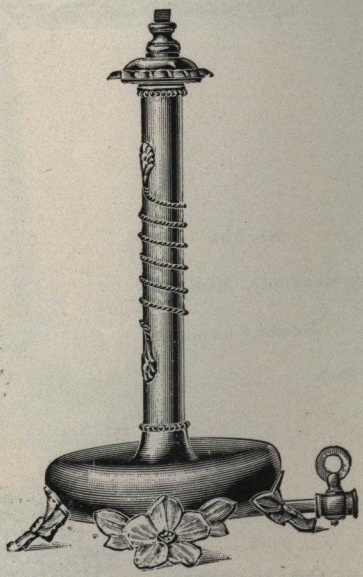
Each $3.35

Order by catalogue numbers

Stand only.

Height, 13 in

Each..... $7.



No. 697

Stand Only. Old Brass

Height, 9 inches

Each.....$5.00

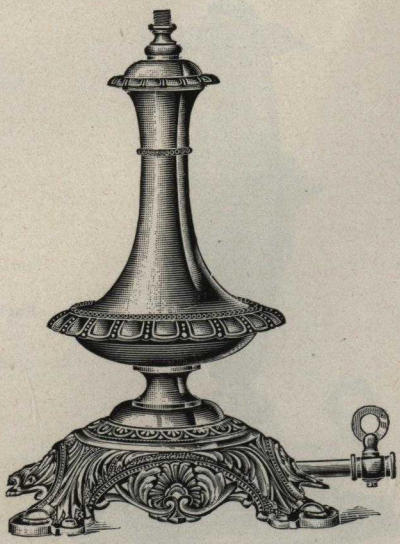
Order by catalogue numbers

No.

Stand only Old Brass

Height, 10 inches

Each.....$4.15



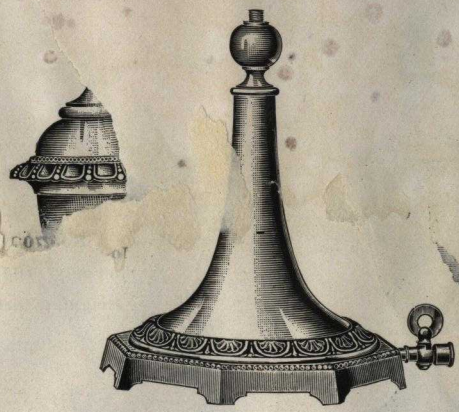
No. 701

Stand only. Brushed Brass

Height, 11 inches

Each.....$7.50

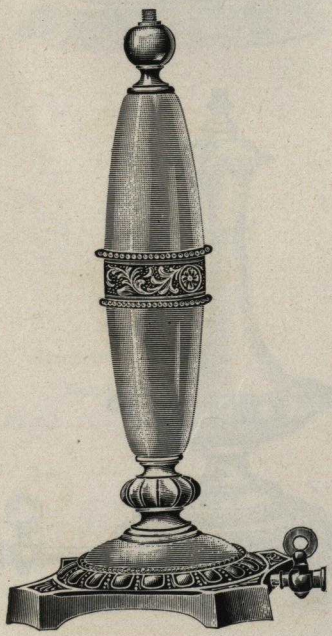
Order by catalogue numbers



No. 692

Stand only. Old Brass. Height, 9 inches

Each $5.20



No. 693

Stand only. Brushed Brass

Height, 15 inches

Each $7.60

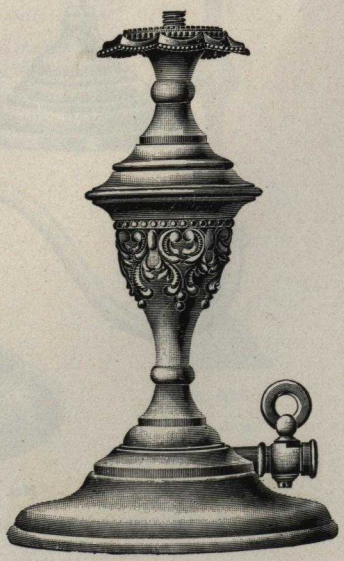
Order by catalogue numbers

No. 707

Stand only. Rich Gilt and Enamel

Height, 9 inches

Each.....$3.25



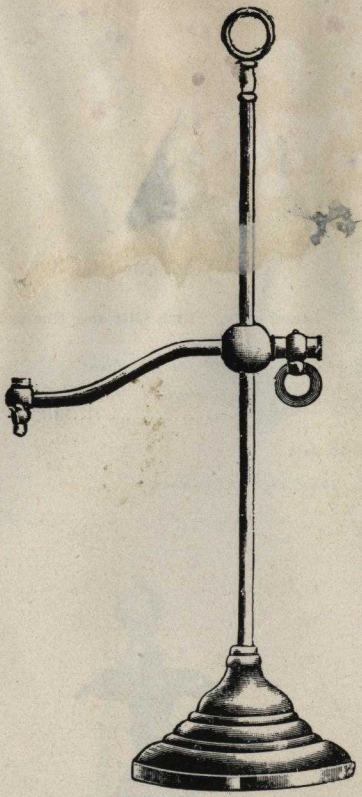
No. 708

Stand only. Rich Gilt and Enamel

Height, 9 inches

Each.....$3.00

Order by catalogue numbers



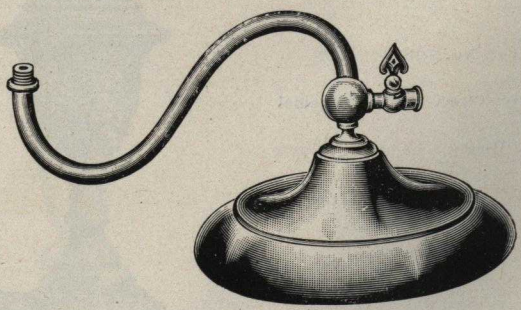
No. 709

Adjustable. Portable

Rich Gilt. Stand only

Height, 24 inches

Each $4.25



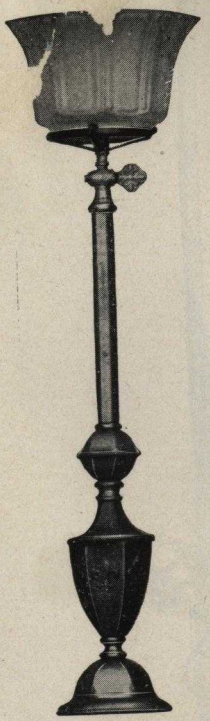
No. 702

Portable for Roll Top Desk. Rich Gilt. Stand only

Each.....$3.50

Order by catalogue numbers

Standards and Newels



No. 419

Brushed Brass

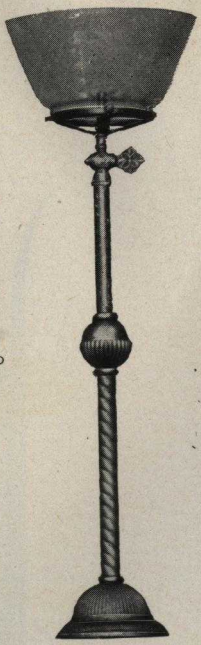
Height, 24 inches
Base, 4½ inches
1 Light.....$6.00

No. 413

Rich Gilt

Height, 19 inches
Base, 5½ inches
1 Light.....$15.00

Includes Globe and Basket



No. 416

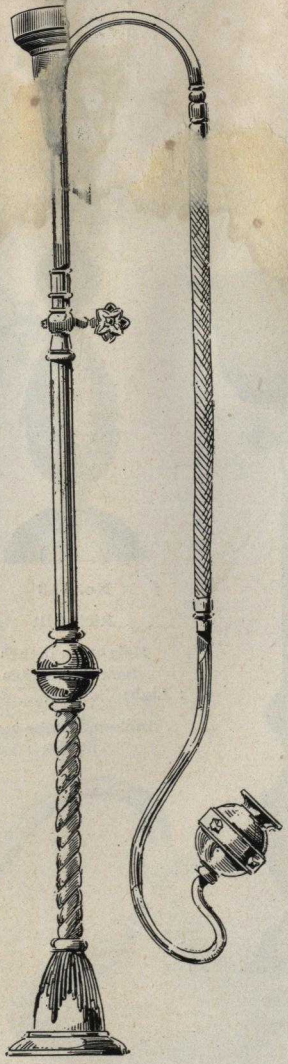
Rich Gilt

Height, 20 inches
Base, 4 inches
1 Light.....$4.00

Globes not included

Order by catalogue numbers

r Standard



No. 499

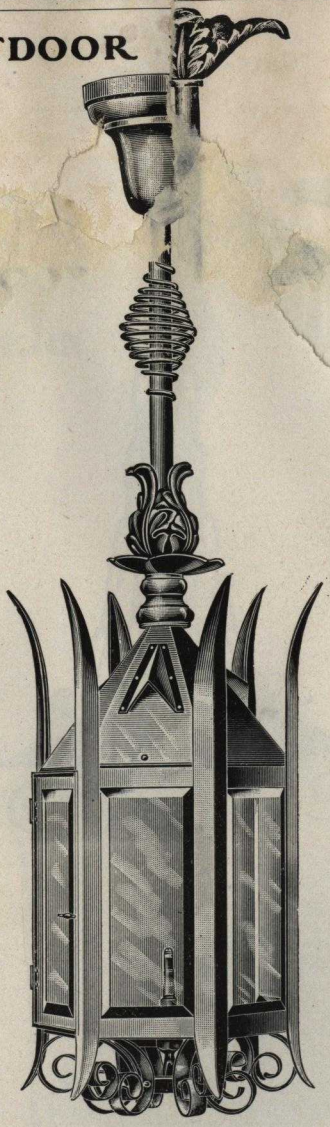
Rich Gilt. Height, 42 inches; Base, 4 inches

Complete, with Mascot Cigar Lighter with Jewels, 18-inch Cigar Tubing

Each..... ..... $7.50

Order by catalogue numbers

OUTDOOR



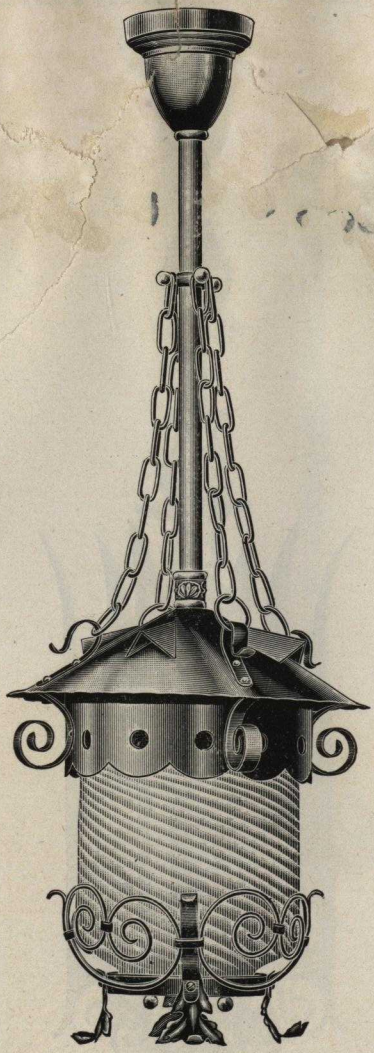
No. 572

Wrought Iron Lantern. Hexagon

Beveled Glass. Length, 36 inches; Spread, 11 inches

1 Light.....$16.50

Order by catalogue numbers



No. 573

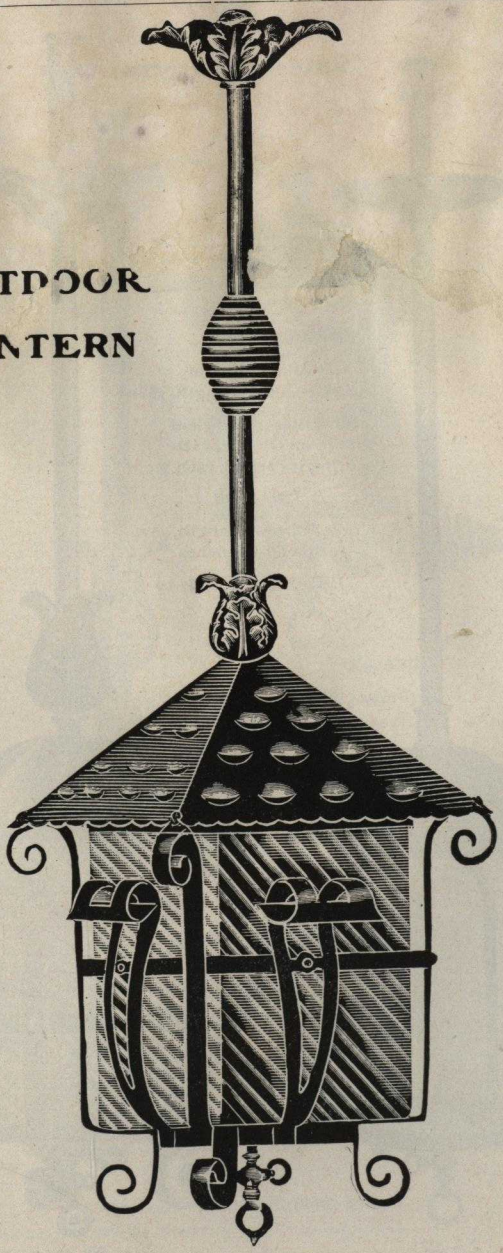
Wrought Iron Lantern. Flint Opalescent Twist Cylinder.

Length, 36 inches; Spread, 12 inches.

1 Light..... $15.00

Order by catalogue numbers

OUTDOOR LANTERN



No. 536. Wrought Iron. Length, 36 inches; Spread, 11 inches..... $10.00

Order by catalogue numbers

Outdoor Lanterns

No. 537

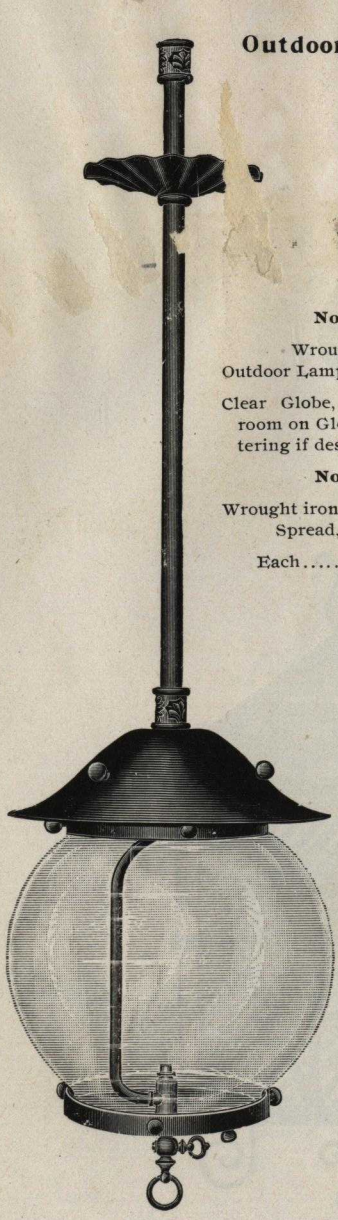
Wrought Iron
Outdoor Lamp. Length, 36 in.

Clear Globe, Sufficient room on Globe for lettering if desired, each, $10.00

No. 533

Wrought iron. Length, 36 in. Spread, 11 inches

Each.....$7.00

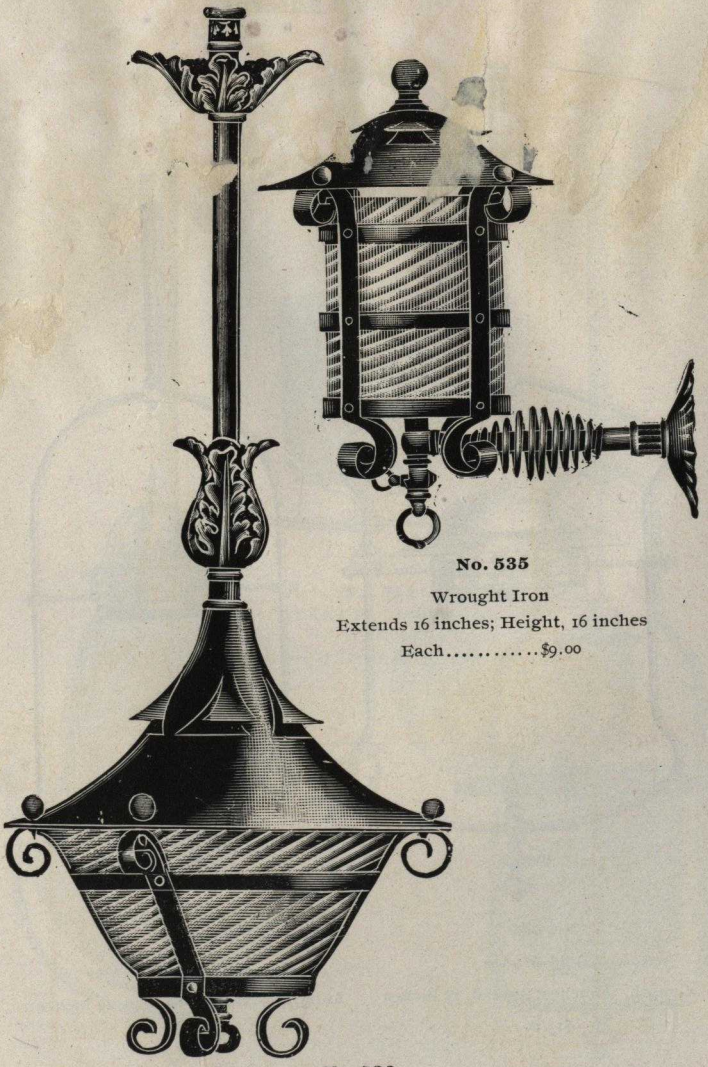


No. 537

No. 533

Order by catalogue numbers

Outdoor Lanterns



No. 535

Wrought Iron

Extends 16 inches; Height, 16 inches

Each.....$9.00

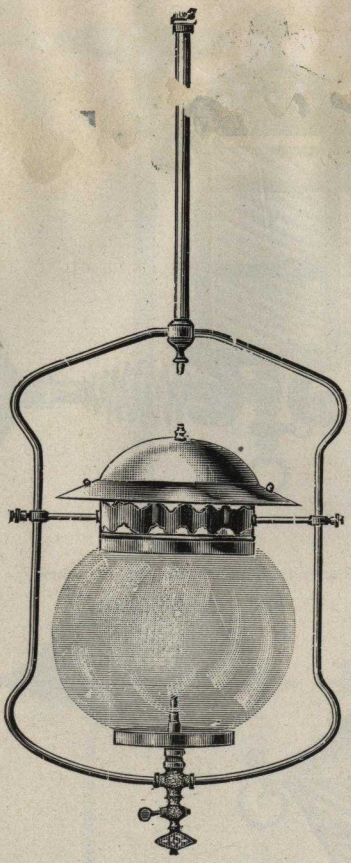
No. 532

Wrought Iron. Dull Black Finish

Length, 36 inches; Spread, 14 inches.....$8.00

Order by catalogue numbers

Outdoor Lanterns

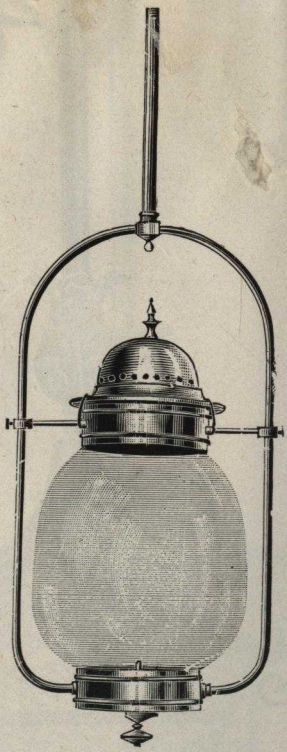


No. 569

Acid Bronze

Length, 36 inches; Spread, 15 inches

$13.00



No. 570

Acid Bronze

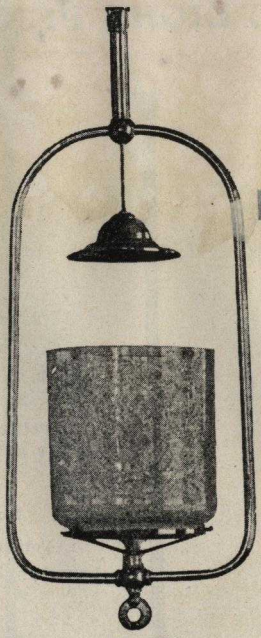
Length, 36 inches; Spread, 14 inches

$11.00

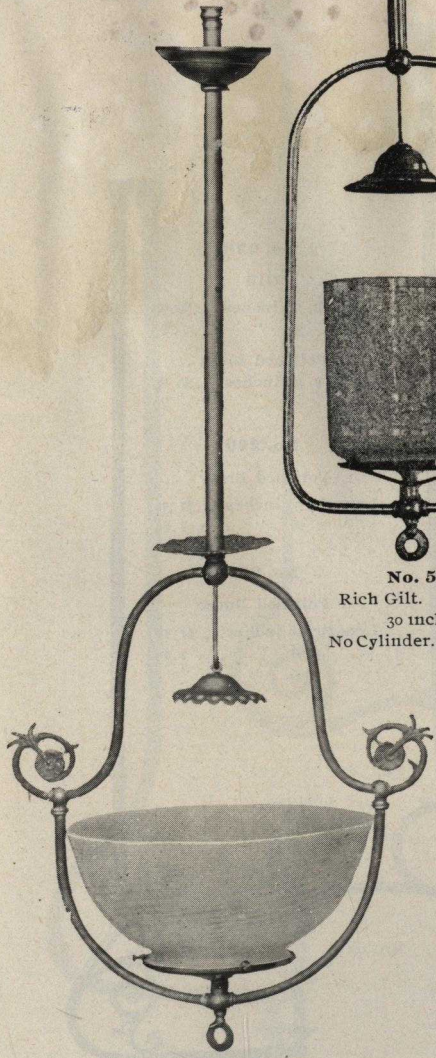
These Lanterns are made strong and heavy for outdoor use. Globes are clear glass, with room for lettering if desired. Canopy raises to take globe out. Finished in Acid Bronze to withstand the weather.

Order by catalogue numbers

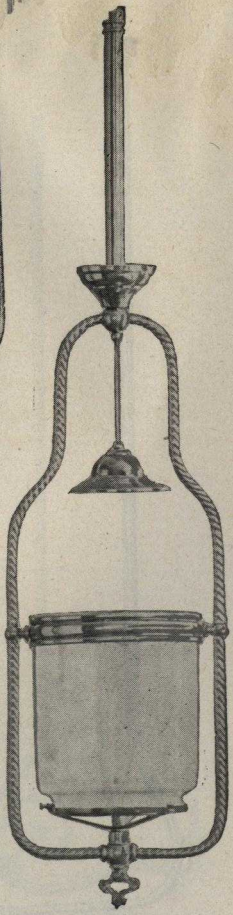
Hall Lights



No. 511
Rich Gilt. Length, 30 inches
No Cylinder..each $2.25



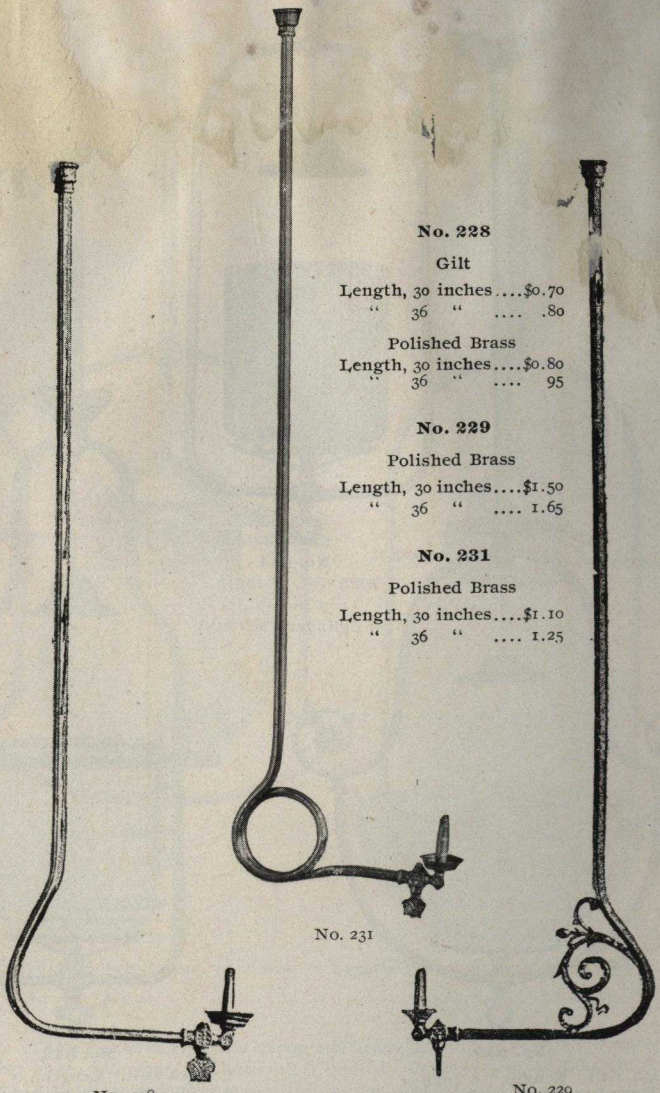
No. 559
Rich Gilt. Length, 36 inches; Spread, 14 inches, with Opalescent 10-inch Shade.....each, $7.00



No. 512
Rich Gilt. Length, 33 inches, with Etched Cylinder, 5 x 6 x 6½ inches.....each, $4.75

Order by catalogue numbers

ONE LIGHT PENDANTS



No. 228

Gilt

Length, 30 inches....$0.70
" 36 " .... .80

Polished Brass

Length, 30 inches....$0.80
" 36 " 95

No. 229

Polished Brass

Length, 30 inches....$1.50
" 36 " 1.65

No. 231

Polished Brass

Length, 30 inches....$1.10
" 36 " 1.25

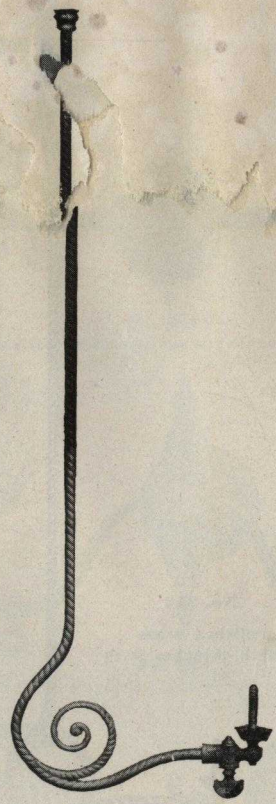
No. 231

No. 228

No. 229

Order by catalogue numbers

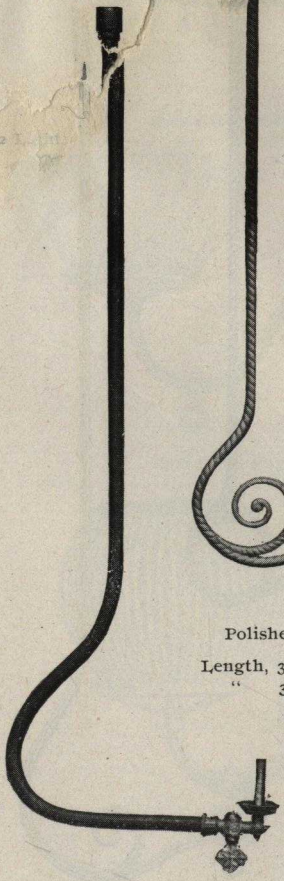
One Light Pendants



No. 240

Polished Brass. Heavy

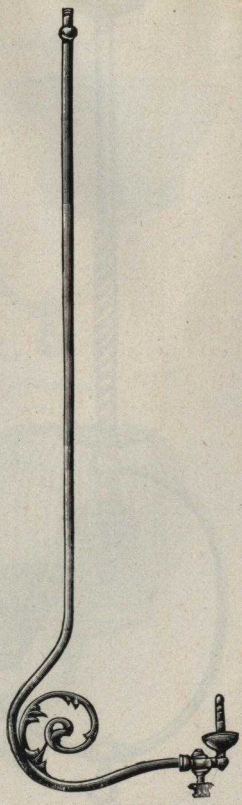
Length, 30 inches.....$1.65
" 36 " 1.85



No. 246

Iron. Bronzed

Length, 30 inches.....$0.70
" 36 " ..... .80



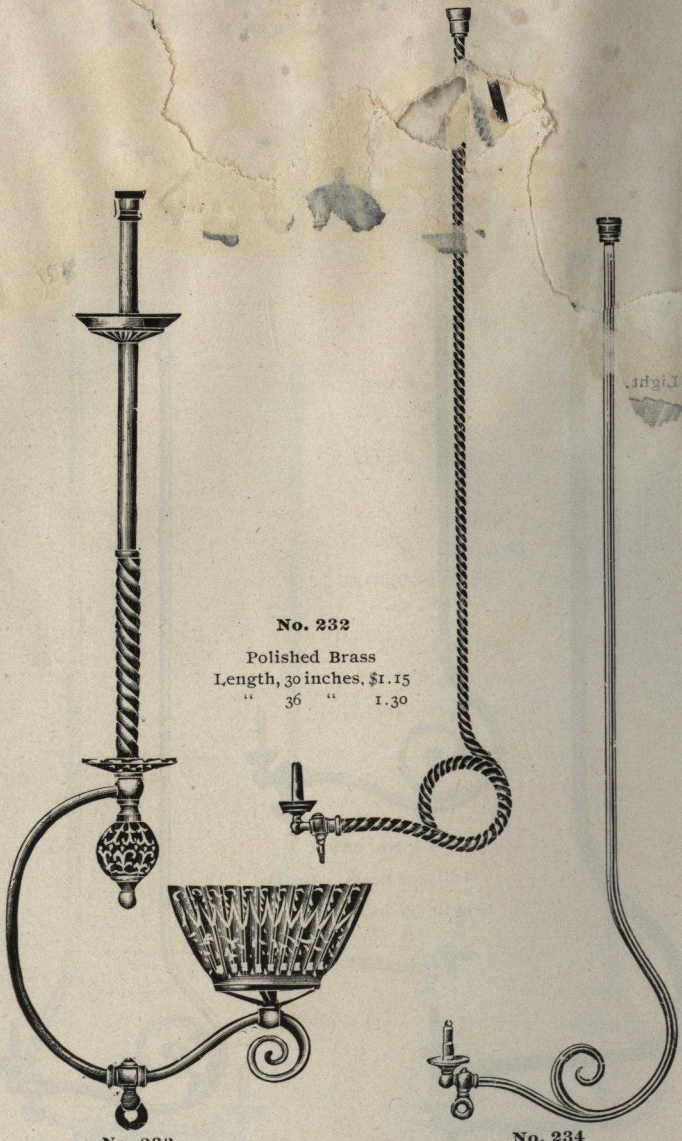
No. 237

Polished Brass

Length, 30 inches....$1.35
" 36 " 1.50

Order by catalogue numbers

One Light Pendants



No. 232

Polished Brass
Length, 30 inches, $1.15
" 36 " 1.30

No. 233

Rich Gilt. Length, 36 inches, each.....$5.50

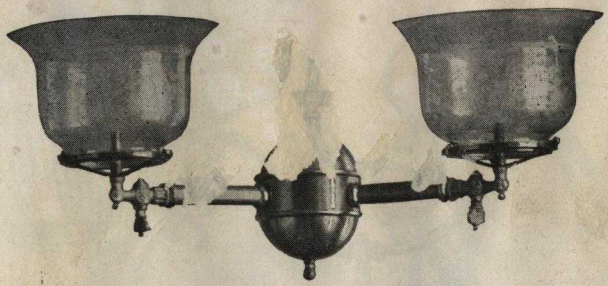
No. 234

Polished Brass. Hexagon Tubing. Length, 36 inches..each,$1.50

Globe not included

Order by catalogue numbers

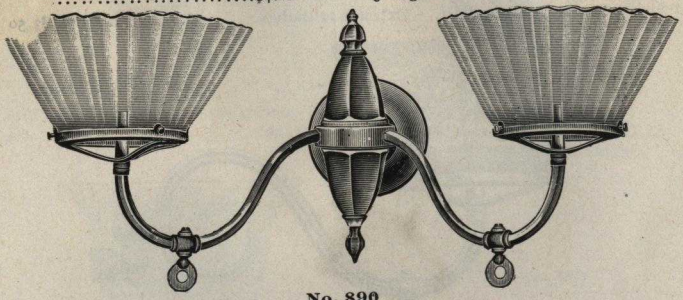
BRACKETS



No. 831

Rich Gilt. Extends 8 inches; Spread, 14 inches

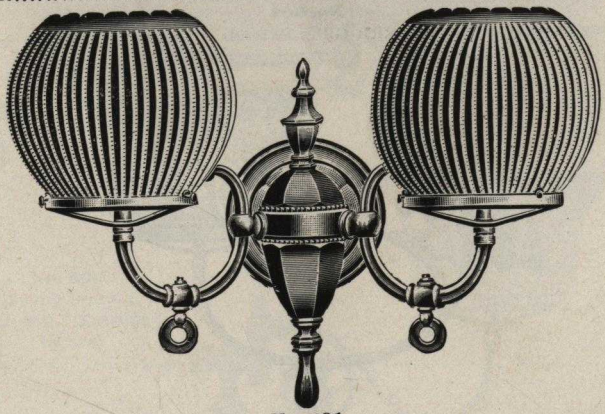
2 Light.....$4.00 3 Light.....$5.00



No. 890

Rich Gilt. Extends 9 inches; Spread, 13 inches

2 Light.....$4.75 3 Light.....$5.50



No. 891

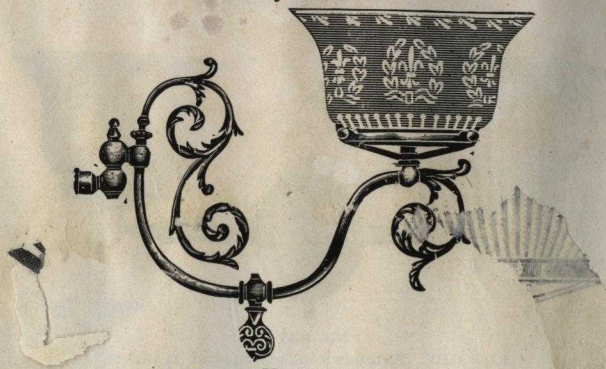
Rich Gilt. Extends 9½ inches; Spread, 10 inches

2 Light.....$7.00 3 Light.....$8.00

Globes not included

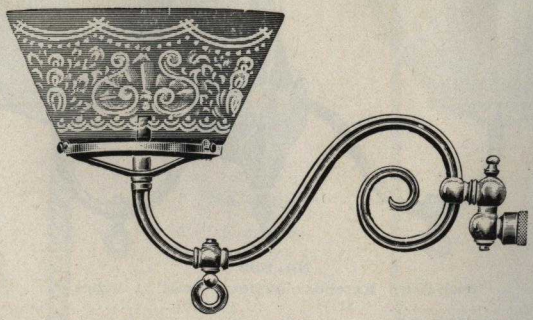
Order by catalogue numbers

Fancy Brackets



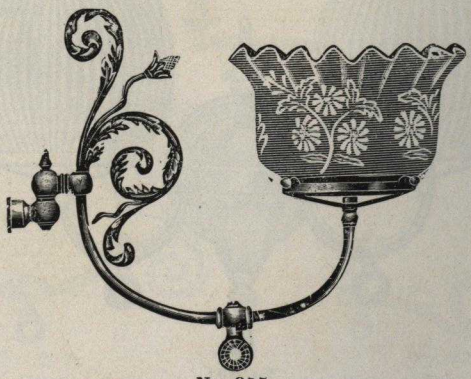
No. 886

1-Swing Bracket. Rich Gilt. Extends 12 inches..... each,



No. 892

1-Swing Bracket, Hexagon. Rich Gilt. Extends 11 inches.....each, $2.50



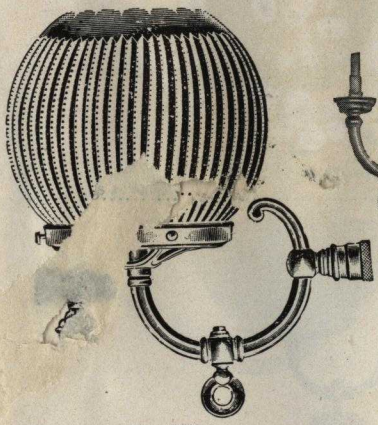
No. 955

1-Swing Bracket. Rich Gilt. Extends 11 inches.....each, $2.50

Globes not included

Order by catalogue numbers

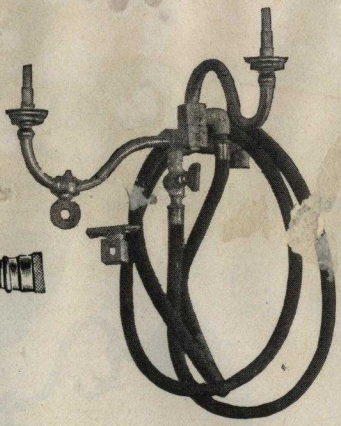
Fancy Brackets



No. 893

Stiff Bracket. Extends 5½ inches

Each.....$2.00

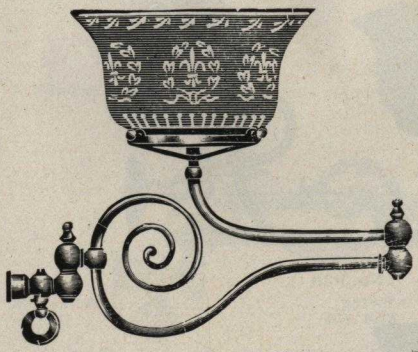


No. 820

Vault Bracket

Each.....$3.25

Mohair Tubing, 12c. ft. extra

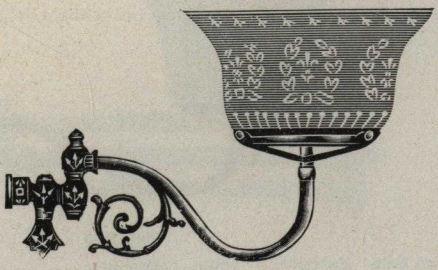


No. 887

2-Swing Bracket

Rich Gilt. Extends 18 inches

Each.....$3.50



No. 803

1-Swing Bracket

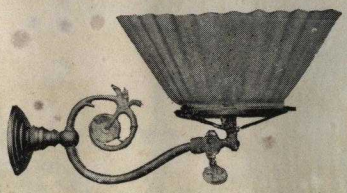
Rich Gilt. Extends 9 inches

Each.....$1.50

Globes not included

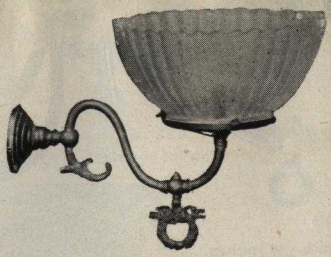
Order by catalogue numbers

Fancy Brackets



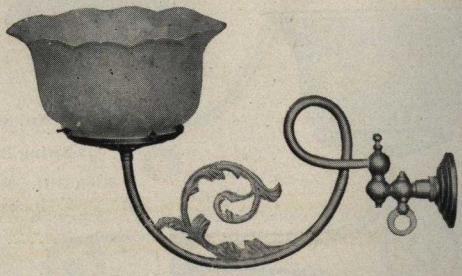
No. 9

Rich Gilt. ten , inches. S ff ..... each, $1.25



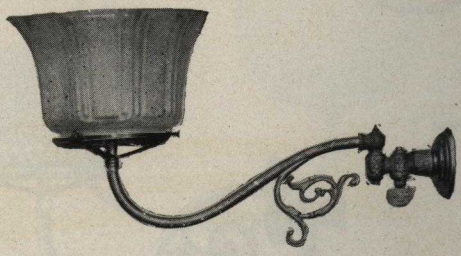
No. 918

Rich Gilt. Extends 6½ inches. Stiff ..... each, 1.75



No. 938

Rich Gilt. Extends 11 inches. 1-Swing ..... each, $2.75



No. 935

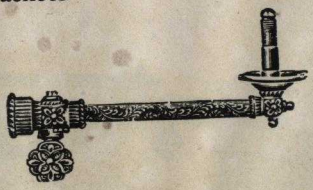
Rich Gilt. Extends 11 inches. 1-Swing..... each, $1.75

Globes not included

Order by catalogue numbers

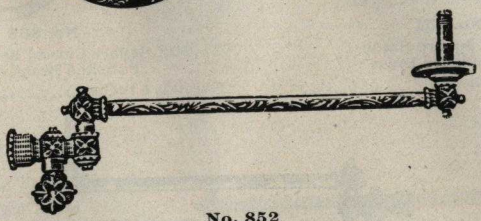
Staple Brackets

No. 849
Stiff Bracket. Gilt
Extends 4 inches.....$0.45

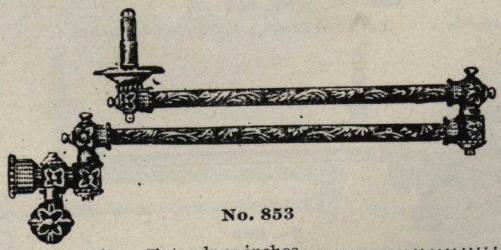


No. 850
Stiff Bracket. Gilt
Extends 6½ inches.....$0.40

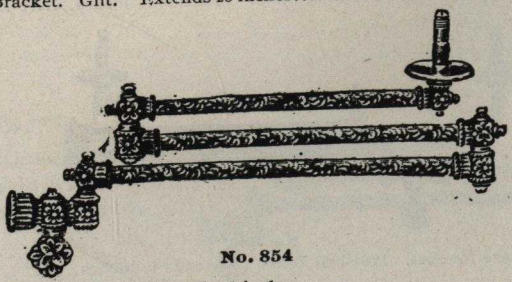
No. 851
Stiff Curved Bracket. Gilt
Extends 7 inches.....$0.45



No. 852
1-Swing Bracket. Gilt. Extends 11 inches.....$0.50



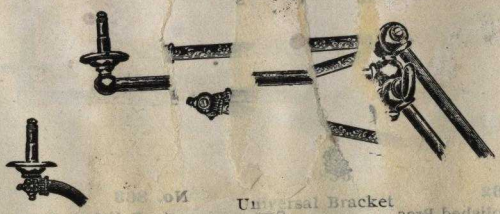
No. 853
2 Swing Bracket. Gilt. Extends 20 inches.....$0.80



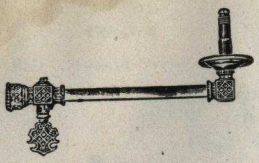
No. 854
3-Swing Bracket. Gilt. Extends 28 inches.....$1.10

Order by catalogue numbers

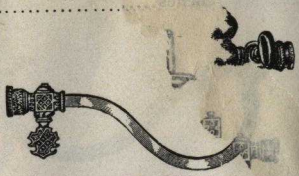
S[illegible]ancy Brac[illegible]ets



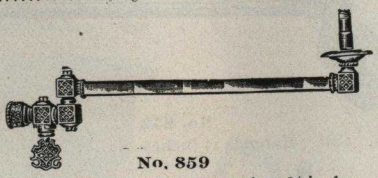
Universal Bracket
Extends 34 inches .....
" 26 " .....



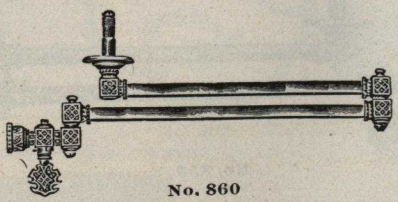
No. 857
Stiff Square Bracket
Polished Brass
Extends 7 inches.....$0.58



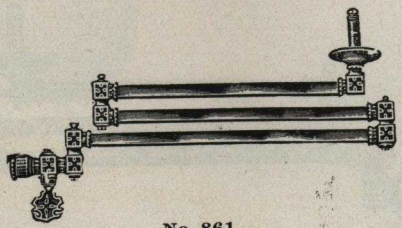
No. 858
Stiff Square Curved Bracket
Polished Brass
Extends 8 inches.....$0.65



No. 859
1-Swing Square Bracket. Polished Brass. Extends 11½ inches.....$0.90



No. 860
2-Swing Square Bracket. Polished Brass. Extends 21 inches.....$1.25



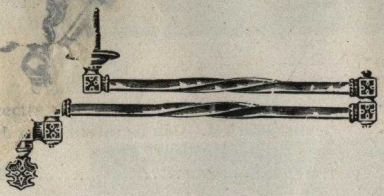
No. 861
3-Swing Square Bracket. Polished Brass. Extends 30 inches.....$1.65

Order by catalogue numbers

y Br

.....$0.75

ing Bracke
Extends 11½ inc

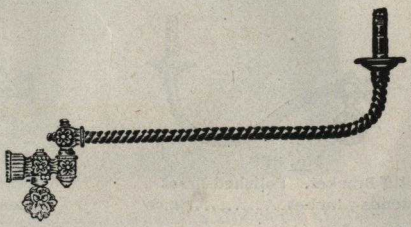


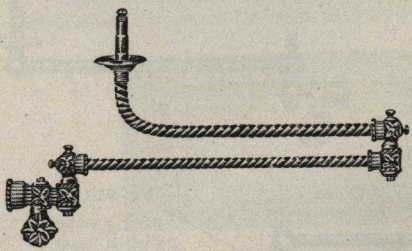
No. 864

2-Swing Bracket
Polished Brass
Extends 21 inches....$1.65

No. 865

1-Swing Bracket
Polished Brass
Extends 12 inches....$0.80



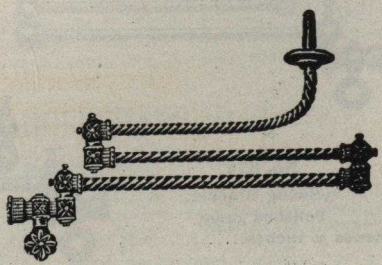


No. 866

2-Swing Bracket
Polished Brass
Extends 21 inches....$1.10

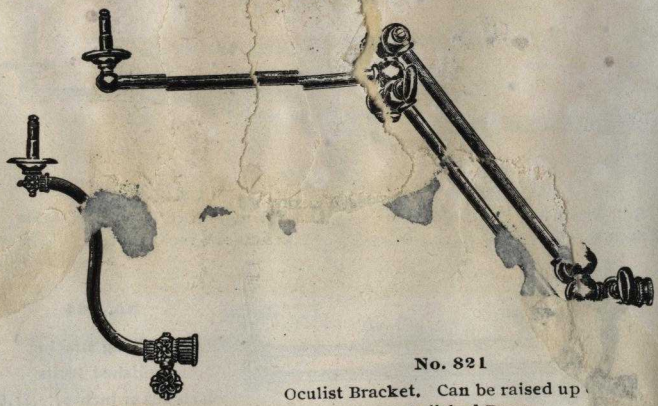
No. 867

3-Swing Bracket
Polished Brass
Extends 28 inches....$1.40



Order by catalogue numbers

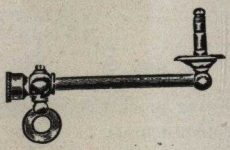
Fancy Brackets



No. 821
Oculist Bracket. Can be raised up
Polished Brass
Extends 24 inches.....

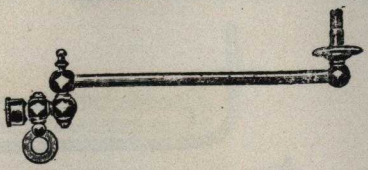
No. 873
Polished Brass
Extends 6 in., raises 8 in., $1.00

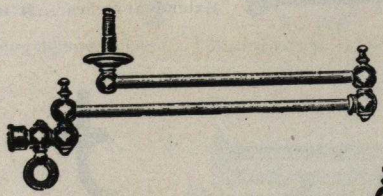
No. 869
Stiff Bracket. Polished Brass
Extends 7 inches.....$0.90



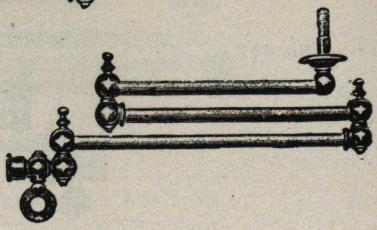
No. 868
Stiff Bracket. Polished Brass
Extends 6½ inches.....$0.75

No. 870
Swing Bracket
Polished Brass
Extends 11 inches.....$1.25



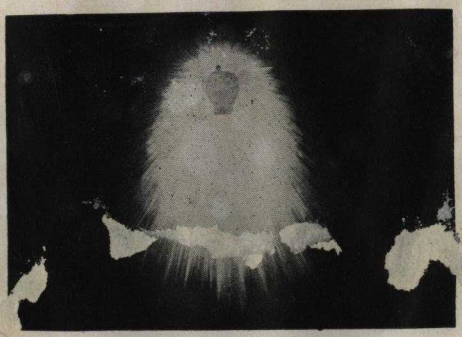


No. 871
2-Swing Bracket
Polished Brass
Extends 21 inches.....$2.00

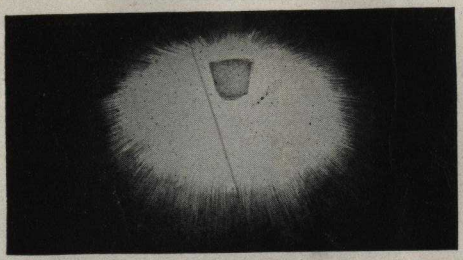


No. 872
3-Swing Bracket
Polished Brass
Extends 30 inches.....$2.75

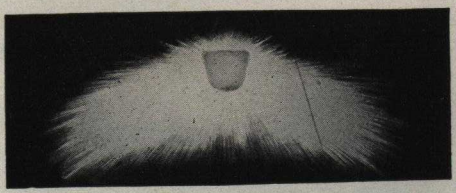
Order by catalogue numbers



CLASS A Holophanes are recommended for use where the light is directly above the objects requiring the strongest illumination.



CLASS B Holophanes are intended for use in all cases of interior lighting where a strong illumination is required in all directions below the horizontal.



CLASS C Holophanes throw the strongest light in the direction most useful for the illumination of large areas, where the lights are necessarily placed far apart; or where it is desirable that the light itself should attract attention.

WHAT IS HOLOPHANE GLASS?

Explanatory

HOLOPHANE GLASS IS DESIGNED TO ACCOMPLISH A DOUBLE PURPOSE:

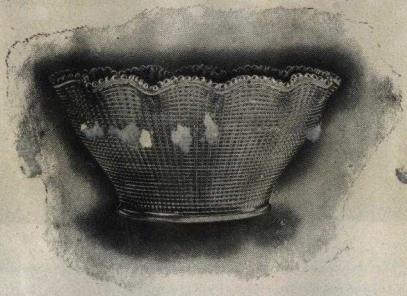
FIRST.—A complete diffusion, and consequent softening of the light.

SECOND.—A better distribution of the rays, throwing the strongest light where the greatest illumination is required.

THIRD.—The removal of all glare, streaks and dazzling points, and a light that is both hygienic and agreeable in quality.

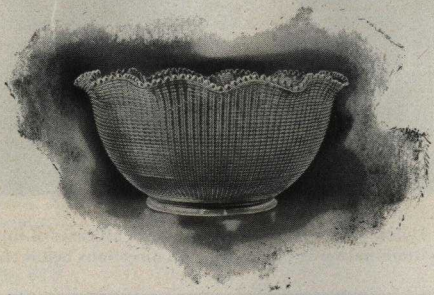
HOLOPHANE GLOBES

4-inch Holders. Open Tip Burners



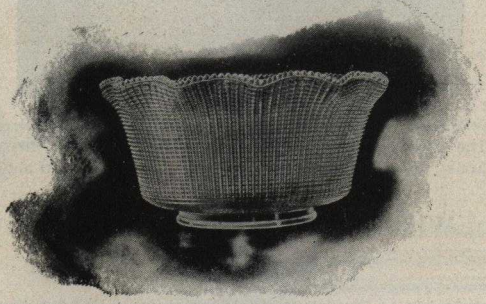
No. 4101

Class A. Per dozen.....$14.00



No. 4401

Class B. Per dozen.....$14.00

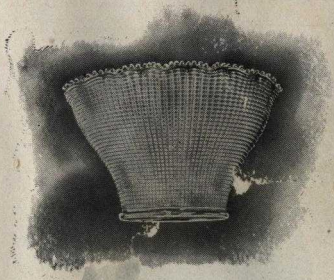


No. 4201

Class C. Per dozen.....$14.00

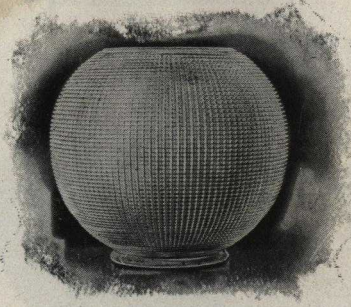
Order by catalogue numbers

Holophane Glass

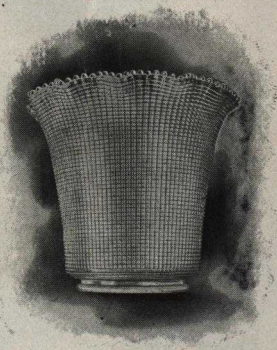


No. 1381
Cl[illegible] Per doz.....$12.00

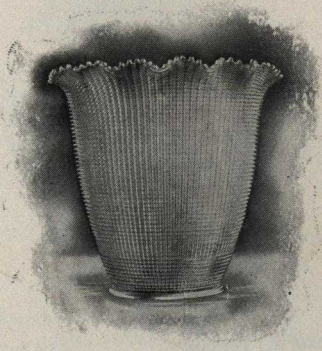
No. 3801
Class B. Per doz.....$15.00



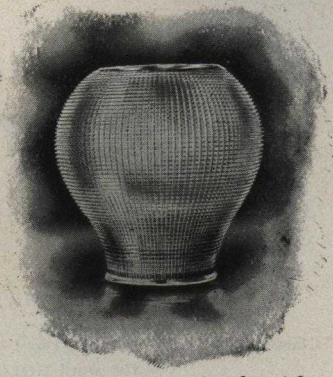
No. 3110
Class B. Per doz.....$22.00



No. 3911
Class C. Per doz.....$15.00



No. 3603
Class B. Per doz.....$16.00

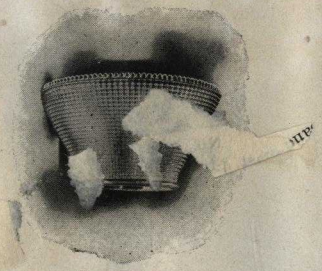


No. 1390. Class A. Per doz..$18.00
No. 1391. Class B. Per doz.. 18.00

Use the word HOLOPHANE when ordering
Order by catalogue numbers

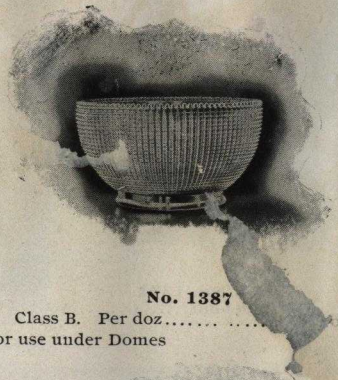
HOLOPHANE GLASS

For Incandescent Gas Burners



No. 1386

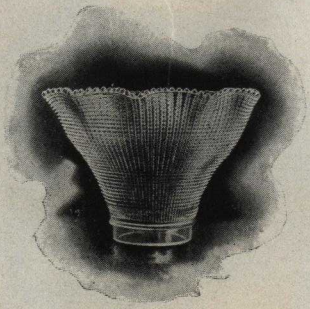
Class A. Per doz $8.00



No. 1387

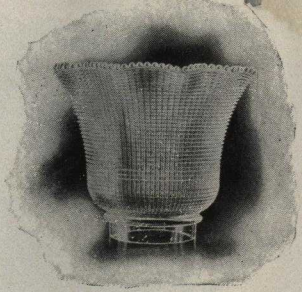
Class B. Per doz.....

The above are for use under Domes



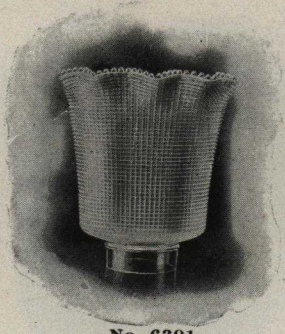
No. 6137

Class A. Per doz.....$12.00



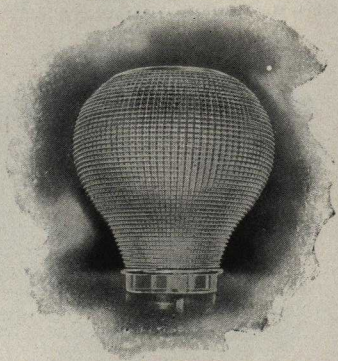
No. 6381

Class B. Per doz..... $12.00



No. 6391

Class C. Per doz.....$15.00



No. 6139

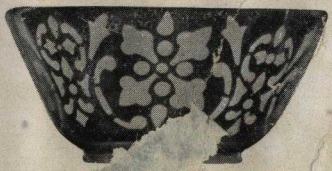
Class A. Per doz.....$16.00

Use the word HOLOPHANE when ordering

Order by catalogue numbers

No. 464

White Acid, 4-inch.....dozen, $3.30



057

S- ...ch..... dozen, $

No. 1801

Crystal, 4-inch.....dozen, $3.75

No. 15—396

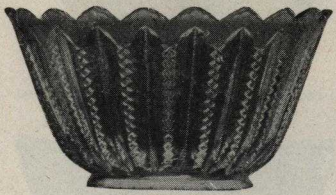
White Acid, 4-inch.....dozen, $4.00

No. 1802

Opal, 4-inch.....dozen, $3.75

Ruby.....dozen, $12.00

Blue or Green.....dozen, $6.00

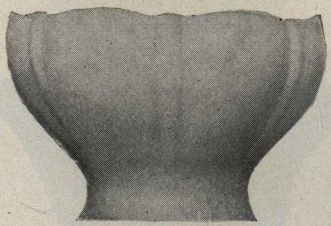


No. 42

Crystal, 4-inch.....dozen, $3.60

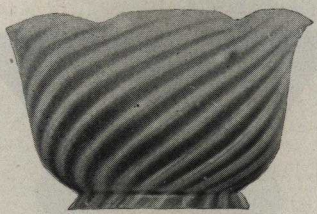
No. 973

Crystal, 4-inch.....dozen, $3.50



No. 6517

Roughed, Straw Opalescent,
4-inch.....dozen, $15.00



No. 5823

Opalescent, 4-inch.....dozen, $5.00

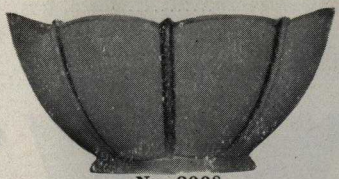
No. 2956.
ch. White Acid. Per doz...$4.50

No. 669
4-inch. White Acid. Per doz...$5.00

No. 6075
4-inch. Etched. Per doz.....$8.50

No. 2735
4-inch. White Acid. Per doz...$5.25

No. 581
4-inch. Etched. Per doz.....$7.50



No. 8008
4-inch. Roughed. Per doz.....$11.00

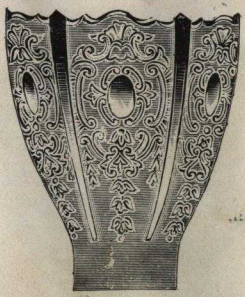
No. 8054
4-inch. Etched. Per doz.....$8.00

No. 6043
4-inch. Etched. Per doz.....$7.50

No. 6715
4-inch
Ruby, Blue, Orange, Citron
Per doz.....$16.00

No. 6716
4-inch
Ruby, Blue, Citron, Orange
Per doz.....$14.50

Order by catalogue numbers



No. W. 3828

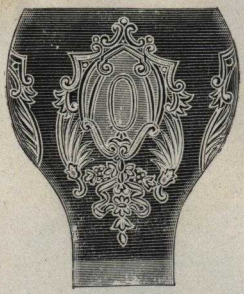
...ned and Cut

Per $16.50

No. W. 3825

Etched and Cut

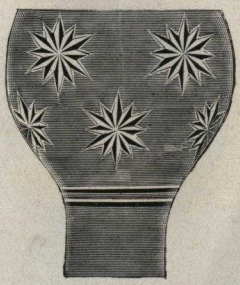
Per dozen.....$19.50



No. W. 3839

Satin Etched

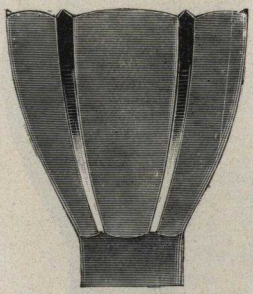
Per dozen.....$6.75



No. W. 3831

Roughed and Cut Star

Per dozen.....$15.00



No. W. 3836

Roughed Clear Ribs

Per dozen.....$7.50

No. W. 3833

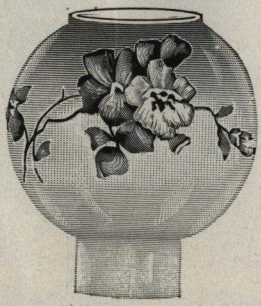
French Roughed and Cut

Per dozen.....$36.00

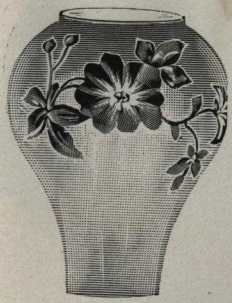
Order by catalogue numbers

No. 4001
White Acid.....dozen, $4.50

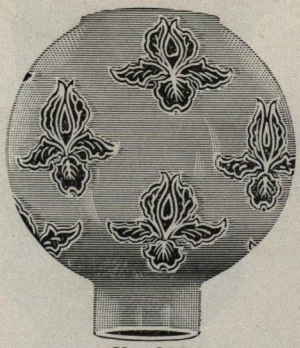
No. 905
Decorated.....dozen, $4.50



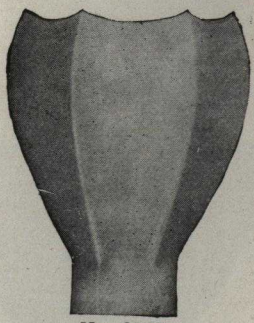
No. 608
Decorated
5½ in. diam.....dozen, $5.00



No. 609
Decorated
4½ in. diam.....dozen, $4.00



No. 906
White Acid.....dozen, $4.00



No. 6525
Plain Top.
Roughed Inside.....dozen, $6.75

Order by catalogue numbers

No. 201

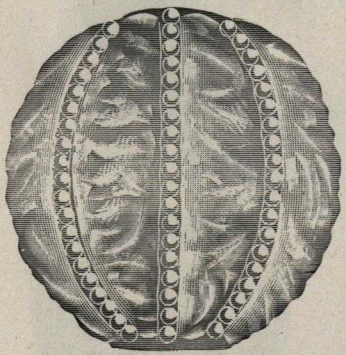
Embossed pattern
Frosted, per doz.....$5.25

Ivory, blue, red, yellow, pink, and sea green
Per doz..... $8.25

No. 202

Embossed pattern
Frosted, per doz.....$5.25

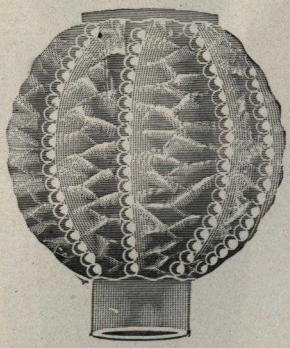
Ivory, blue, red, yellow, pink and sea green
Per doz.....$8.25



No. P. 7

7-inch Silk Pattern. Frosted
Frosted with crystal bead
Per doz.....$10.00

Ivory, blue, red, yellow, pink and sea green
Per doz.....$16.50



No. 200

5½-inch Silk Pattern. Frosted
Frosted with crystal bead
Per doz.....$5.25

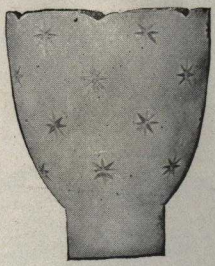
Ivory, blue, red, yellow, pink and sea green
Per doz.....$8.25

Order by catalogue numbers

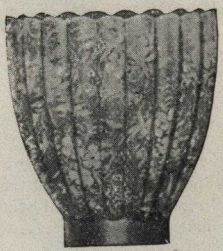
No. 1530
White Acid
Per dozen.....$4.00

No. 1531
White Acid
Per dozen.....

No. 6972
Etched
Per dozen.....$12.00



No. 8412
Roughed and Cut
Per dozen.....$12.00

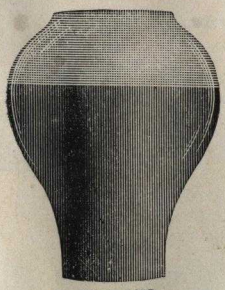


No. 6462

Etched.	Per dozen.....	$ 6.00
Pink Opalescent,	per doz.....	15.00
Orange	" "	15.00
Blue	" "	10.00
Citron	" "	10.00

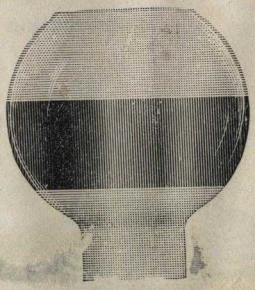
No. 6054
4½ x 5 inches
Etched
Per dozen.....$7.50
Rose or Orange
Per dozen.....$15.00

Order by catalogue numbers



No. 453

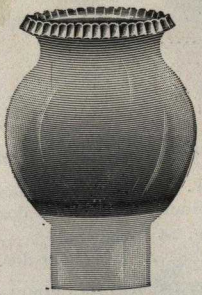
Opal, per doz $1.50
Half " " doz 1.50
All " " 1.50
Pink " " 3.50
Red " " 3.50
Yellow " " 3.50
Blue " " 3.50
Green " " 3.50



No. 66

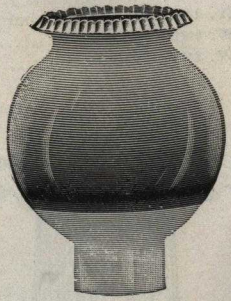
Opal, per doz $1.50
Half frosted, per doz 1.50
All " " 1.50
Pink " " 3.50
Red " " 3.50
Yellow " " 3.50
Blue " " 3.50
Green " " 3.50

JEWEL TOP



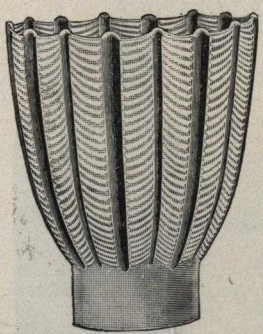
No. 607

Crystal. Jewel Top
4½ in. diameter
Per dozen $2.00



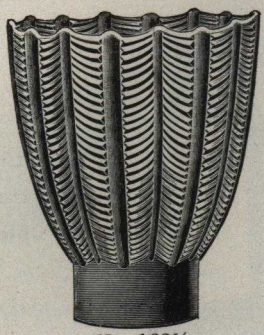
No. 606

Crystal. Jewel Top
4½ in. Diameter
Per dozen $2.00



No. W. 162

Crystal
Per dozen $3.00

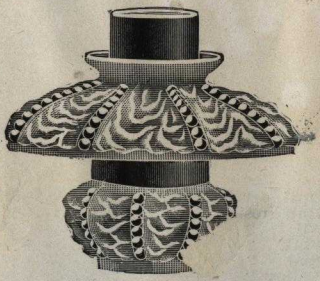


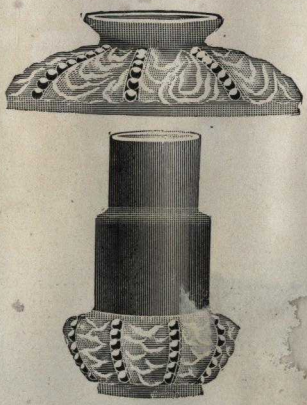
No. 162½

Clear Rib and Roughed
Per dozen $5.25

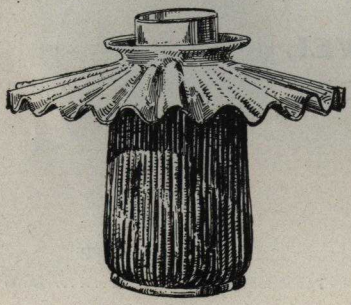
Order by catalogue numbers

Combination Silk Pattern—Frosted



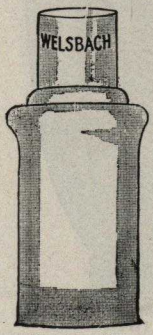


No. W. 125 Shade and Chimney..... .....per dozen, $10.00
No. W. 126 Shade only .... " 7.50
No. W. 127 Chimney only..... " 2.50



Combination Prism

No. W. 75 Shade and Prism Chimney.....per doz. $4.50
No. W. 74 Shade only.....
.....per doz. 1.75
No. W. 76 Prism Chimney only.....per doz. 2.75



No. W. 77
Per dozen.....$1.60

Light House Chimneys

No. W. 78
Per dozen..... $1.50

Order by catalogue numbers

Rose Tints

No. H 2059

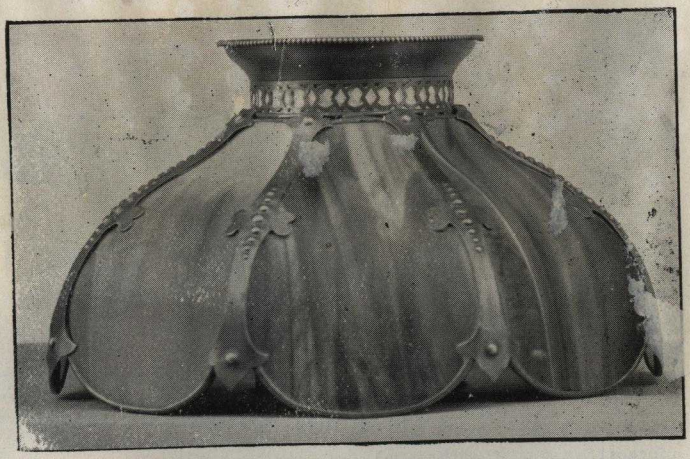
9 inches .....each, $5.50
10 inches ..... " 6.75
12 inches ..... " 13.50
} 4-inch Adjustable Holder. See Plate 1089

Ruby

No. H 942

9 inches .....each, $3.75
10 inches ..... " 4.00
12 inches ..... " 9.00
} 4-inch Adjustable Holder. See Plate 1089

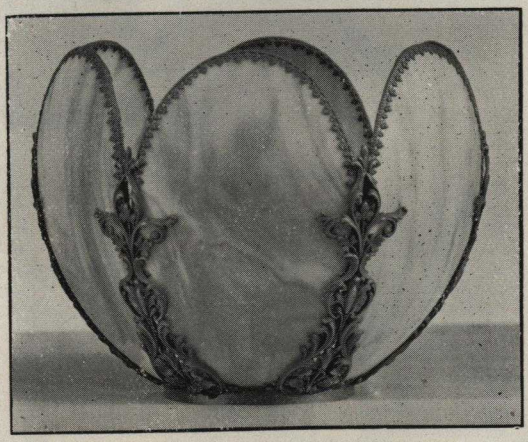
Art Glass Dome



No. H 1186

12-inch Art Glass Top, Dome Shade, made in combination colors...each, $12.00
See Plate 1089 for Holder

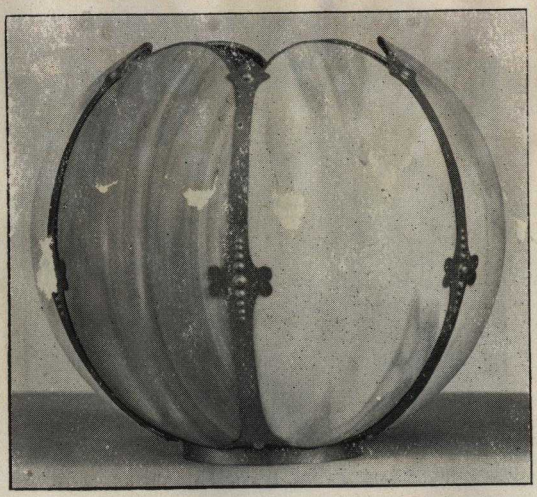
Art Glass Globe



No. H 1071

10-inch Art Glass Globe, size 4-inch Holder, made in combination colors.....each, $4.50
See Plate 1089 for Holder

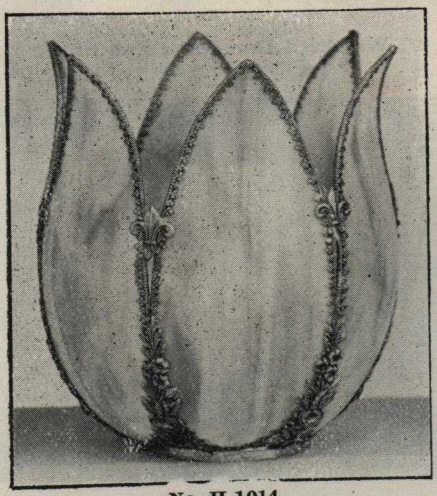
Order by catalogue numbers



No. H 1073

Art Panel Globe. Size, 4-inch Holder. Made in combination colors
See Plate No. 1089 for Holder

Each $7.50



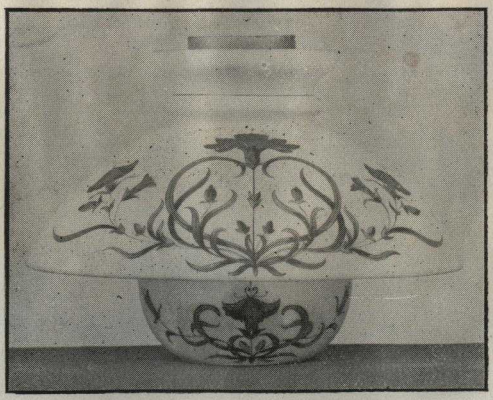
No. H 1014

10-inch Art Glass Globe. Size, 4-inch Holder, made in combination colors
See Plate No. 1089 for Holder

Each..... $7.50

Order by catalogue numbers

Welsbach Dome and Eye Shade

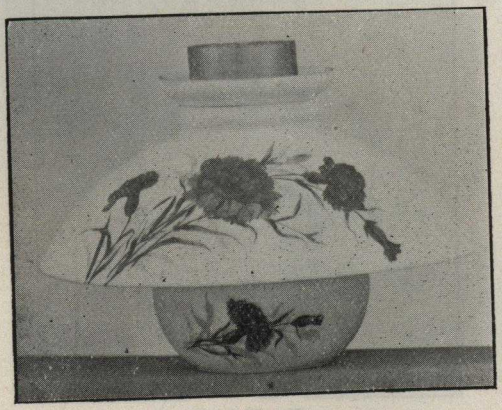


No. H 1046

Carnation

Each.....$3.00

Welsbach Dome and Eye Shade



No. H 112

Assorted Colors

Each.....$1.35

Order by catalogue numbers

No. W 103

10-inch Decorated Shades.....per dozen, $15.00

Bobeches..... " " 5.50

No. W 111

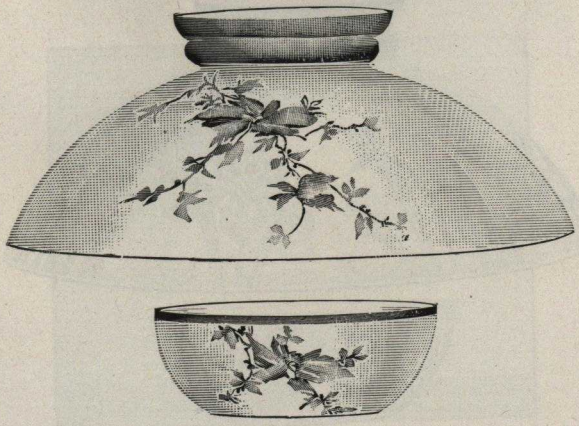
10-inch Decorated Shades.....per dozen. $20.00

Bobeches..... " " 8.00

Order by catalogue numbers

No. W 107

10-inch Decorated Shades.....per dozen, $17.50
Bobeches..... " " 6.75



No. W 100

10-inch Decorated Shades.....per dozen, $10.80
Bobeches..... " " 4.00

Order by catalogue numbers

10-inch Silk Pattern Shade

No. P 11

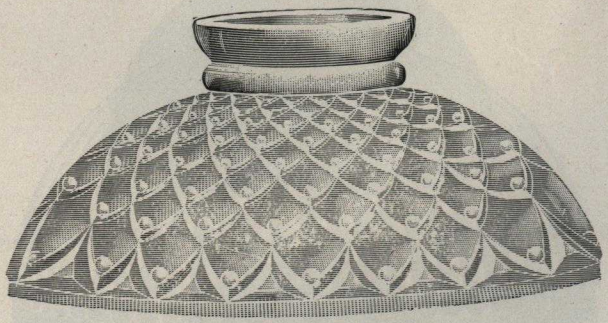
Ivory, Blue, Ruby, Canary Pink, Amber

Per dozen.....$18.00

Eye Shade for the above, in colors to match

Shades.....per dozen, $5.25

10-inch Pineapple Pattern Shade



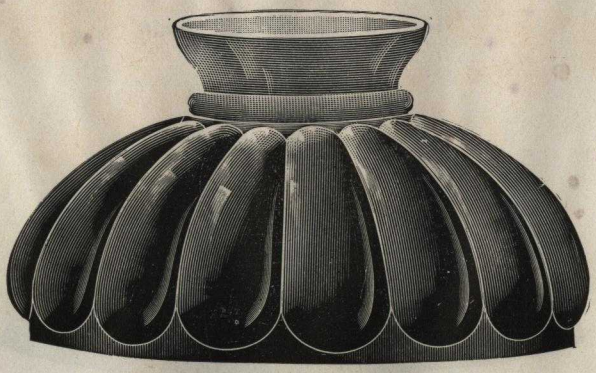
No. P 12

Green	per dozen,		$13.50
Rose, Canary	"	"	18.00
Oriental	"	"	27.00

Eye Shades for above

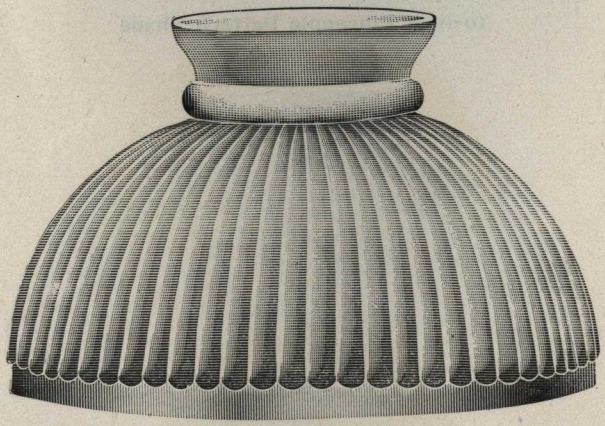
Green	per dozen,		$4.50
Rose, Canary	"	"	5.25
Oriental	"	"	6.00

Order by catalogue numbers



No. 124

Size	Green	Yellow	Oriental
10 inches	$1.50 each	$2.00 each	$2.25 each
12 inches	2.00 "	2.50 "	3.00 "

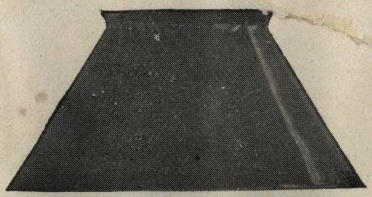


No. 123

Size	Opal	Green	Yellow	Oriental
10 inches	$0.65 each	$1.50 each	$2.00 each	$2.25 each
12 inches	1.25 "	2.00 "	2.50 "	3.00 "

Order by catalogue numbers

Opal and Green Shades

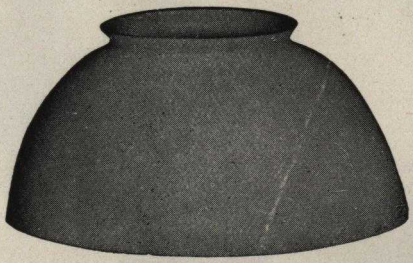


No. 142

Cone Shade, 5x10 inch. Green, White Lining.....dozen, $13.50

No. 141

Dome Shade, 5x10 inch. Green, White Lining.....dozen, $15.00



No. 138

Dome Shade, 5x10 inch. Opal .....dozen, $4.50

No. 137

Cone Shade, 5x10 inch. Opal.....dozen, $3.75

Order by catalogue numbers

10-inch

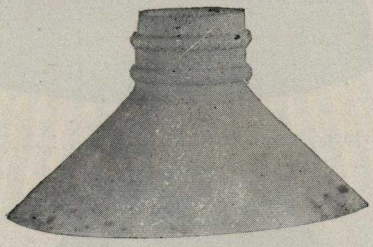
No. 136

Opal ..... per dozen, $ 4.25

No. 143½

Green ..... per dozen, $13.00

10-inch

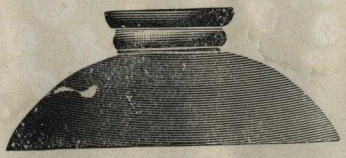


No. 135

Opal ..... per dozen, $ 3.75

No. 143

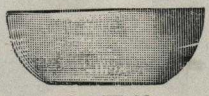
Green ..... per dozen, $12.00



No. W 10
10-inch.

Plain Opal	per dozen,	$ 4.00
Sea Green	" "	7.50
Blue	" "	7.50
Plated Green	" "	13.50
" Rose	" "	18.00
" Yellow	" "	18.00
" Oriental	" "	27.00

Bobeches (or Eye Shades) for Above



No. W 43

Plain Opal	per dozen,	$1.30
Sea Green or Blue	" "	2.25
Plated Green	" "	4.50
Oriental	" "	6.00
Rose and Canary	" "	5.25

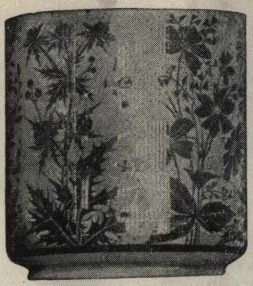
No. W 74

Plain Opal ..... per dozen, $1.75

Order by catalogue numbers

Hall Light Cylinders

No. 157
5x6x6½ inches
Opalescent.....dozen, $ 9.00
Ruby, Pink..... " 15.00



No. 163
5x6x6½ inches
White Acid.....dozen, $7.50
No. 163½. Etched..... " 9.00

No. 162
5x7x8 inches
Etched .....dozen, $14.25

No. 158
5x7x8 inches
Opalescent.....dozen, $14.25
Ruby or Pink..... " 24.00

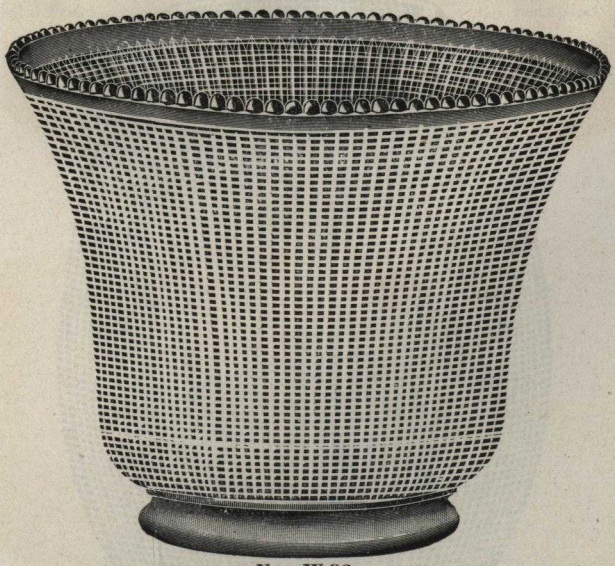
No. 161
7x9 inches
Etched .....dozen, $16.50

No. 437
Etched .....dozen, $27.00

Order by catalogue numbers

No. W 91

Crystal Prism.....per dozen, $6.00



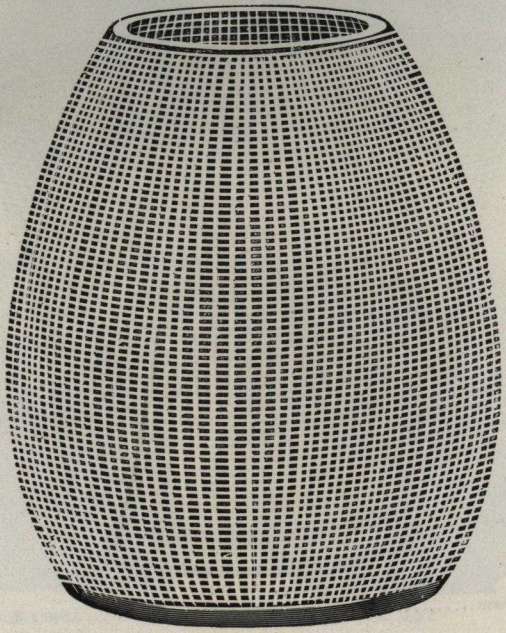
No. W 92

Crystal Prism.....per dozen, $6.00

Order by catalogue numbers

No. W 83

Crystal Prism.....per dozen, $5.25



No. W 95

Crystal Prism.....per dozen, $6.00

Order by catalogue numbers

No. W 81

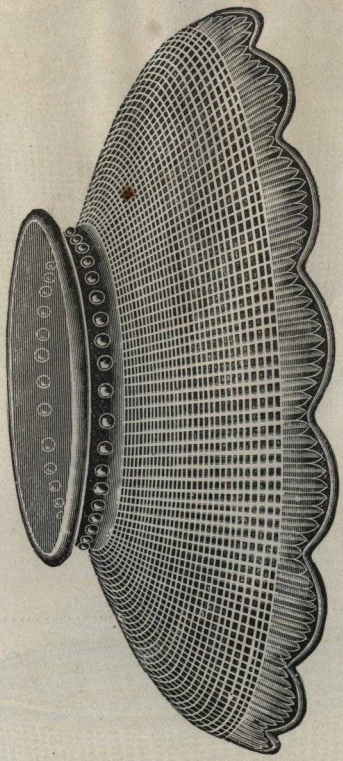
Crystal Prism.....per dozen, $5.25

No. W 82

Crystal Prism.....per dozen, $5.25

Order by catalogue numbers

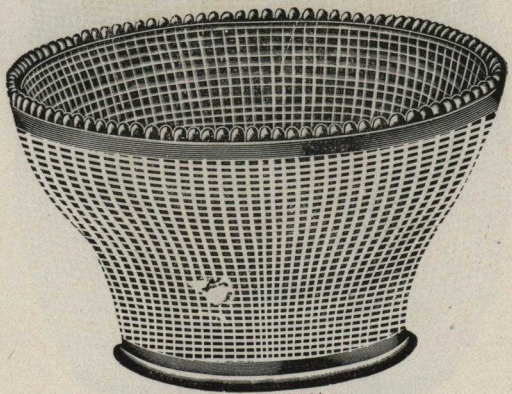
Top Shade



No. W 79

Crystal Prism.....per dozen, $2.25

Eye Shade

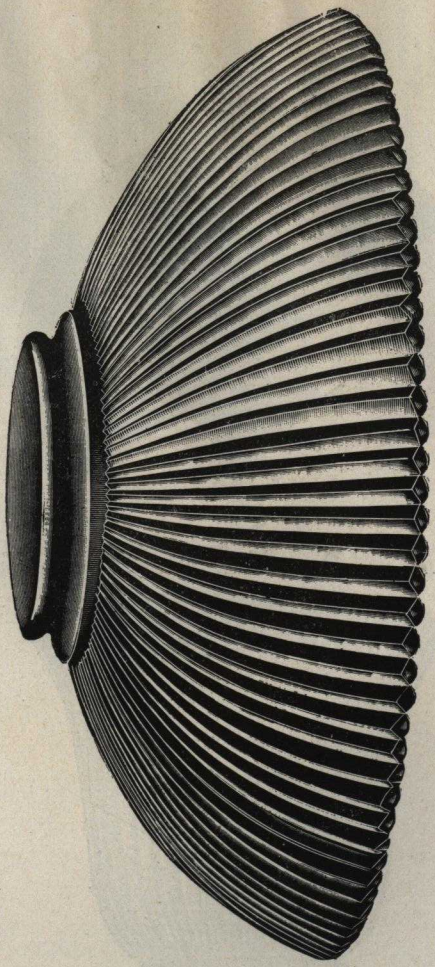


No. W 822½

Crystal Prism..... per dozen, $2.25

Order by catalogue numbers

Top Shade

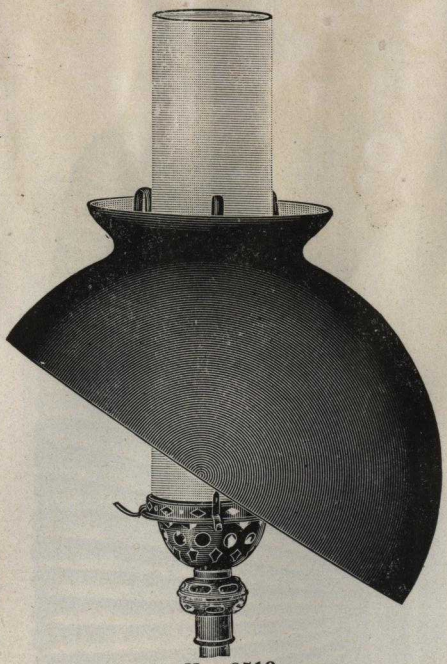


No. W 822

10-inch Diameter

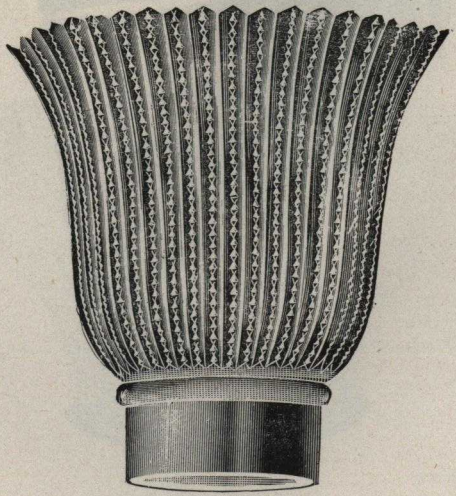
Crystal Prism.....per dozen, $5.25

Special Reading Shade



No. 8519

Green Plated.....per dozen, $12.50

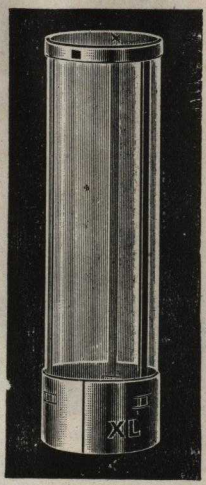


No. W 41

Crystal.....per dozen, $3.50

Order by catalogue numbers

Mica Chimney for Welsbach



No. 0575

Three-piece

6-inch	per dozen	$1.80
7 "	" "	2.40
8 "	" "	2.80

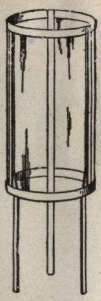
No. 0576

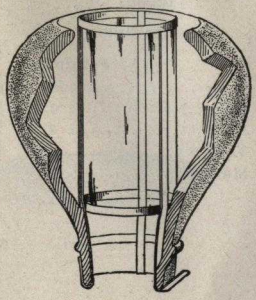
Mica Chimney for Welsbach

Six-piece

6-inch	per dozen	$1.40
7 "	" "	1.50
8 "	" "	1.60

Mica Chimney

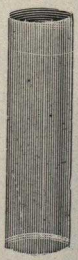




No. 0577

Used in connection with small globe as above

Per dozen.....$2.00



No. 168

Chimney, 8-inch

Ground bottom.....per dozen $1.25

Order by catalogue numbers

Candles and Bobeches

No. 35

4⅝ inches long. Glazed

Per dozen

Opal	$1.25
Pink	2.25
Yellow	4.50
Green	2.00
Royal Copper	5.00

No. 36

Glazed

Opal	per dozen,		$1.50
Pink	"	"	2.50
Yellow	"	"	5.00
Green	"	"	2.50
Royal Copper	"	"	6.00

No. 449

4½ inches long

Satin finish

Per dozen

Ivory	$1.75
Blue	2.00
Pink	2.25
Yellow	5.00
Maroon	6.00

No. 450

Satin Finish

Ivory	per dozen,		$4.25
Blue	"	"	4.50
Pink	"	"	5.00
Yellow	"	"	6.75
Maroon	"	"	7.50

No. 445

4 inches long. Satin finish

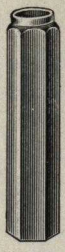
Per dozen

Ivory	$1.75
Blue	2.25
Pink	2.25
Yellow	3.50

No. 446

Satin Finish

Ivory	per dozen,		$1.75
Blue	"	"	2.25
Pink	"	"	2.25
Yellow	"	"	3.50



No. 447

4 inches long

Satin Finish

Per dozen

Ivory	$2.00

No. 448

Satin Finish

Ivory ..... per dozen, $2.50

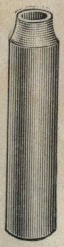
See Plate 1069 for Holders

Order by catalogue numbers

No. 451

4 inches Long

Opal .....Doz. $1.00



No. 452

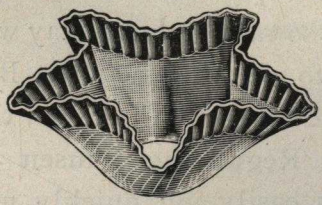
Crystal.....Doz. $1.00

No. 37

Flat Opal.....Doz. $1.25

No. 38

Crystal Gold Edge.....Doz. $2.00



No. 154

Opal Colored Edge

Crystal, Red, Blue, Amber.....Doz. $4.50

See Plate 1069 for Holders

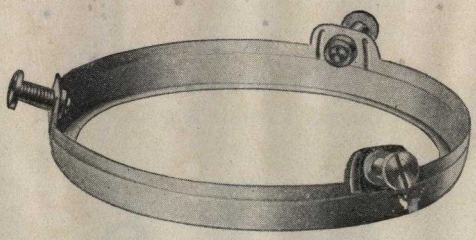
Order by catalogue numbers

SPECIAL NOTICE

IN REFERENCE

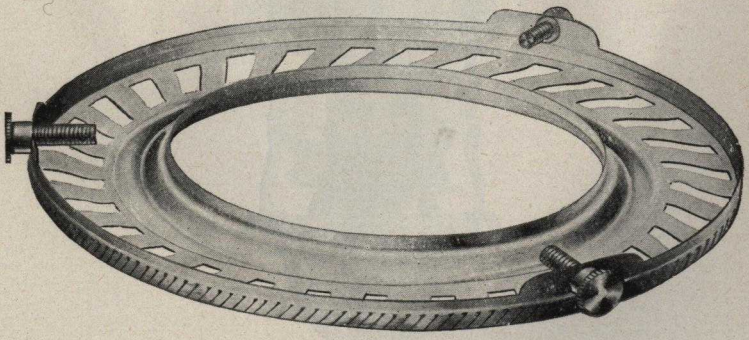
Welsbach Universal Burners

The Universal Welsbach Burner has been improved until it is as near perfection as human ingenuity and experience can make it. The improvement is so radical that to-day we absolutely guarantee it to give satisfaction. Blackening of mantles is prevented by the use of the Improved Center-Hole Regulating Bunsen Tube. Gas regulation is easily and quickly made without disturbing the burner. The use of all styles of mantles is made possible by means of a mantle wire lug, while adjustable fittings permit the use of 4-inch Gas and all sizes of Incandescent Electric Globes, or all other styles of glassware, either globes or shades.



No. W 17

2¼-inch Holder ..... per dozen, $0.80



No. W 16

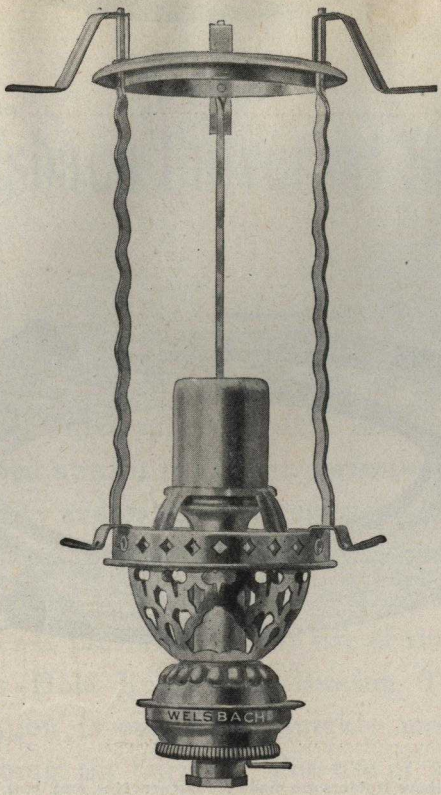
4-inch Holder ..... per dozen, $1.20

The above Holders are made for Burners Nos. 0203, 0204, 0205

Order by catalogue numbers

Welsbach Burner

Post



No. 0199

Burner only.....each, $0.55

Made for Cap Mantle Only

Order by catalogue numbers

Welsbach Gallery Burner

No. 0198

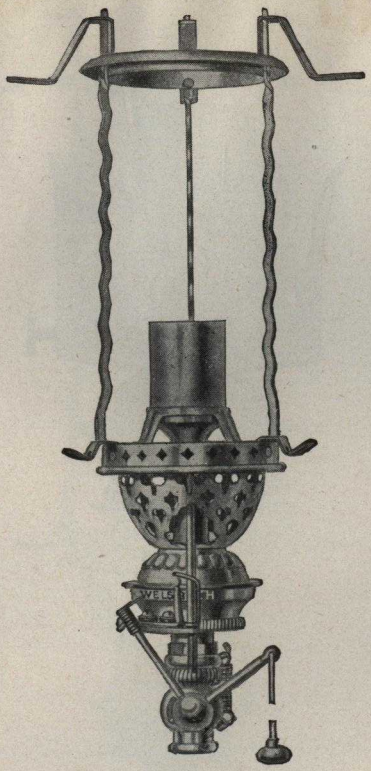
Burner only.....each $0.55

Made for Cap or Side Support Mantles

Order by catalogue numbers

Welsbach Electric Igniter

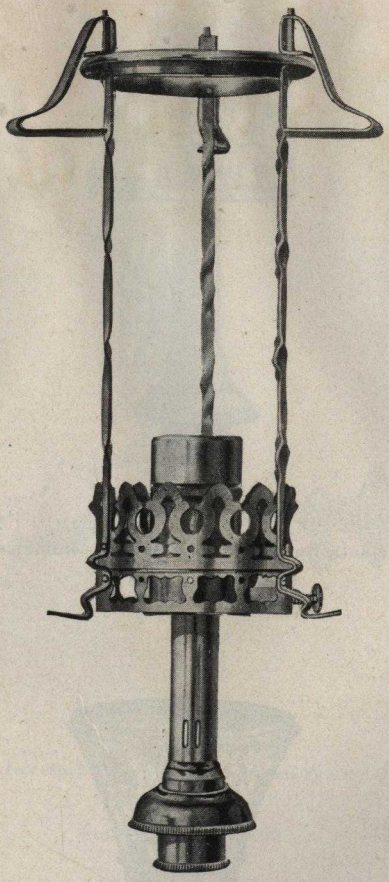
One Wire



No. 0197

Each $2.50

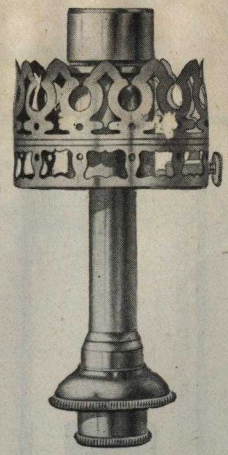
Order by catalogue numbers



No. 0201

150 Candle Power, Post Burner .....each, $0.64

Order Mantle No. 55, 4½ inches long, for use on this Burner. See Plate 1046



No. 0200

150 Candle Power Gallery Burner..... .....each, $0.54

Order Mantle No. 55, 4½ inches long, for use on this Burner

See Plate 1046

No. 0202

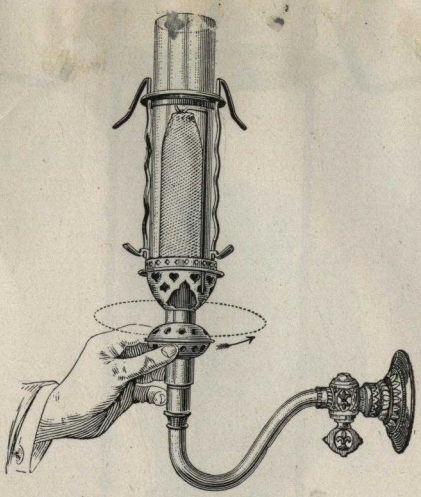
Ornament for Nos. 0200 and 0201

By use of the above ornament the stem of these burners can be covered up, making the burner much more ornamental

Each..... ..... $0.12

Order by catalogue numbers

Climax Burner



A Perfect Burner for Machine, as well as City Gas

Post Burner **No. 0193**

Burner only.....each, $0.90

Gallery Burner **No. 0192**

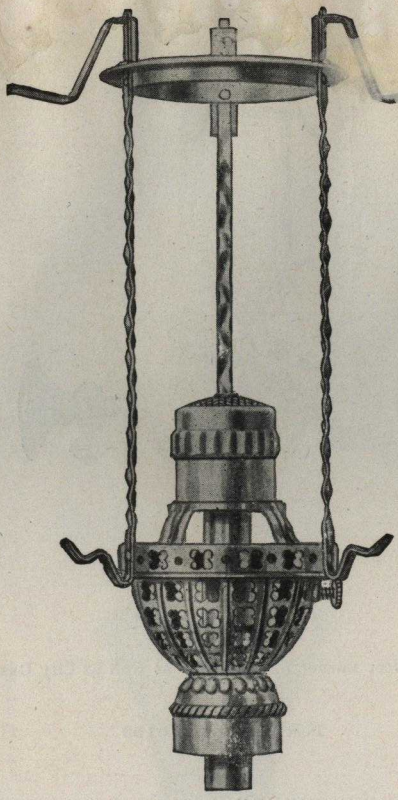
Burner only.....each, $0.90

Made for Cap or Side Support Mantles

Order by catalogue

Williamson Burner

Post



No. 0190

Burner only..... each, $0.30

Use Cap or Side Support Mantles

Order by catalogue numbers

Williamson Burner

Gallery

No. 0191

Burner only ..... each, $0.25

Use Cap or Side Support Mantles

Order by catalogue numbers

Vibration Burner

Gallery

No. 0195

With Adjustable Bunsen, Center Rod Cap and Gauze and Side Set Screw

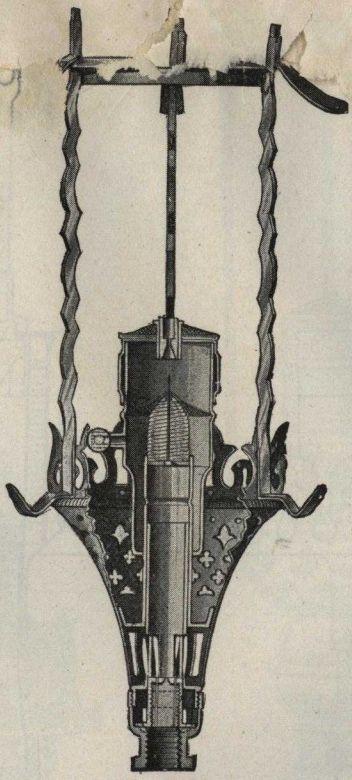
Burner only.....each, $0.70

Order by catalogue numbers

B

Vibratio n Burner

Po st



No. 0196

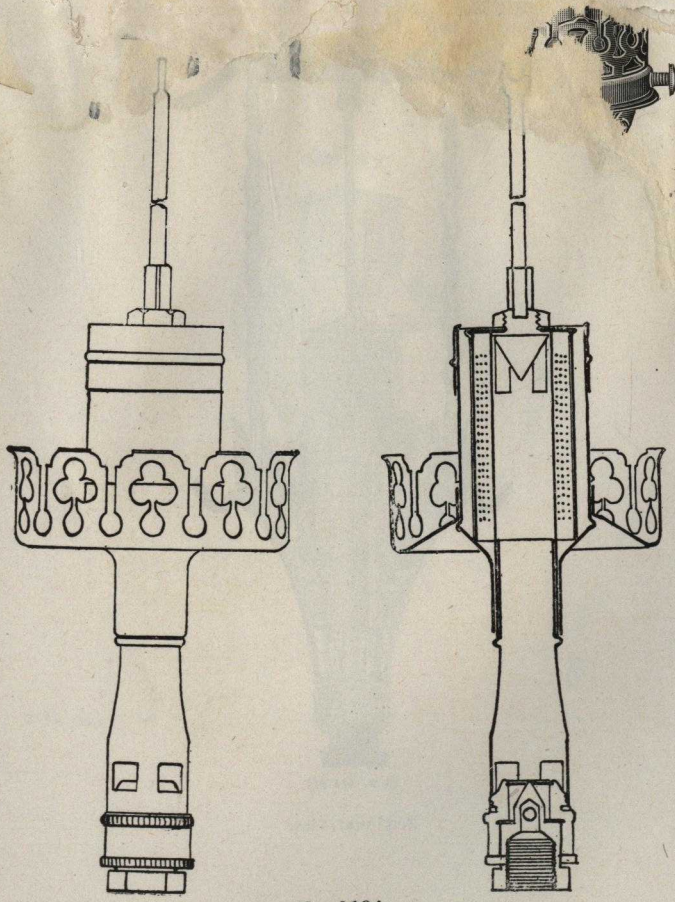
Sectional View

With Adjustable Bunsen, Center Rod Cap and Gauze and Side Set Screw

Burner only.....each, $0.75

Order by catalogue numbers

Vibrat old Burner



No. 0194

Burner Only..... .....each, $0.60

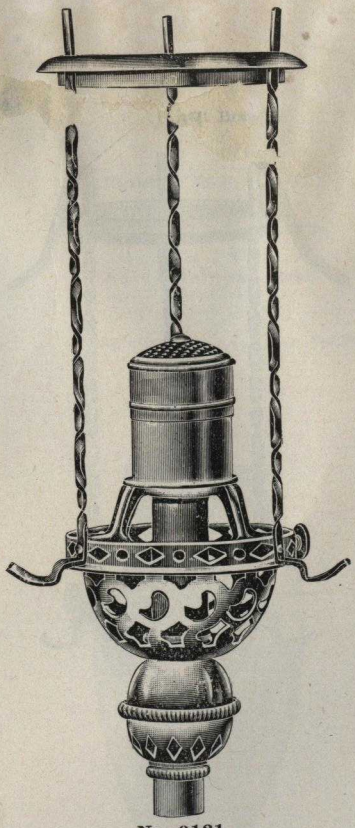
Made for Magnesia Center Support

Standard Size Glassware

Order by catalogue numbers

Taylor Burner

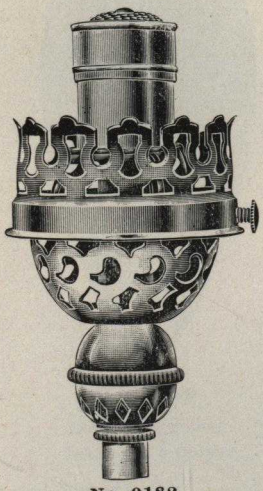
Post



No. 0181

Each $0.45

Gallery



No. 0182

Each..... $0.40

Order by catalogue numbers

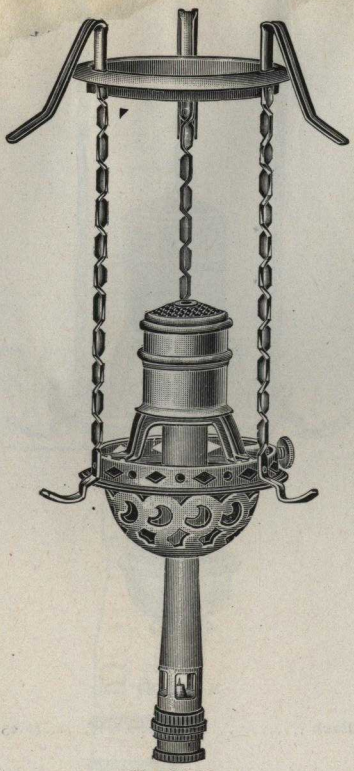
The Miller Burner

Gallery

No. 0189

Each..... $0.65

ost



No. 0188

Each..... $0.70

Kern Stalactites

No. 1

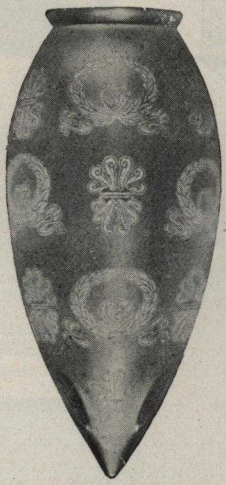
1-Lite

Finished Rich Gilt with

Crystal Etched Stalactite

No. 2 Burner and Mantle

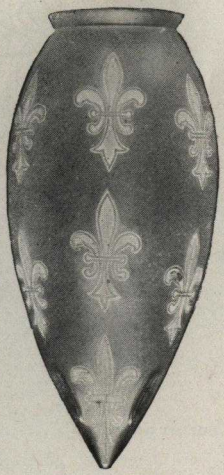
Complete.....$12.75



No. K 139

Length, 12 inches

Takes No. 2 Burner



No. K 142

Length, 12 inches

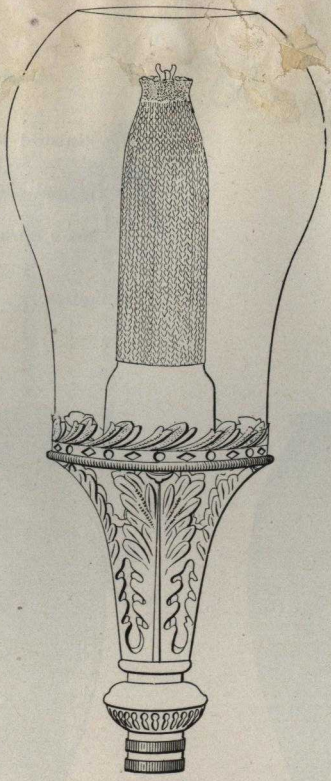
Takes No. 2 Burner

Crystal Etched.....each, $2.70

Ruby or Orange.....each, 4.26

Order by catalogue numbers

Kern Burner



No. K 92

Size 0,	Burner only	each,	$1.44
" 1,	" "	"	1.89
" 2,	" "	"	2.10
" 3,	" "	"	2.28
" 4,	" "	"	2.73

No Mantle or Glass included in above prices

Order by catalogue numbers

Kern Glassware

No. K 19

Price in Lots of one dozen

Crystal, Ruby, Orange, Blue

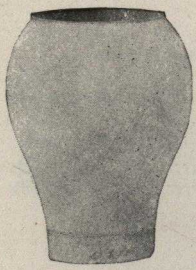
Size	1	2	3 and 4
Crystal..... $6.82	$6 82	$6.82	$ 10
Color..... 8.88	8.88	8.88	10.38

No. K 31

Size	0	1	2	3 and 4
Crystal.....	$6.82	$6.82	$6.82	$ 8.10
Color.....	8.88	8.88	8.88	0.38

No. K 9

Size	0	1	
Clear.....	$2.85	$2.85	....
Roughed.....	3.28	3.28	$3.28



No. K 12

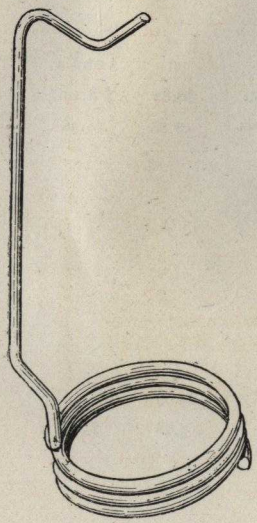
Size	0	1	2	3 and 4
Clear.....	$1.90	$1.90	$1.90	$2.10
Roughed....	2.38	2.38	2.38	2.56

Order by catalogue numbers

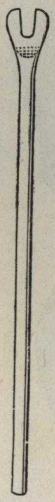
Kern Mantles

Size	0	1	2	3	4
each,	$0.39	$0.39	$0.48	$0.67	

Mantle Supports Extra



No. K 71



No. K 72

Wire Mantle Supports

Size,	0	per dozen,	$0.24
"	1	" "	0.24
"	2	" "	0.24
"	3	" "	0.36
"	4	" "	0.36

Magnesia Mantle Supports

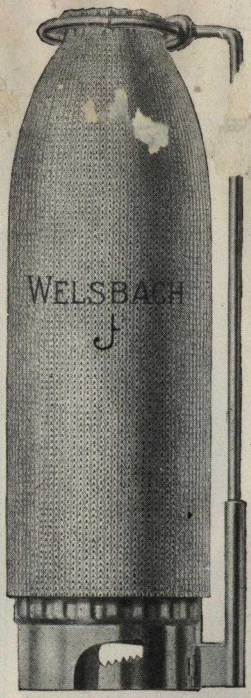
Size,	0	per dozen,	$....
"	1	" "	....
"	2	" "	0.24
"	3	" "	0.24
"	4	" "	0.36

Order by catalogue numbers

No. 189

Asbestos Tied

Each	$ 0.51
Per hundred	48.00



No. 197

Asbestos Tied

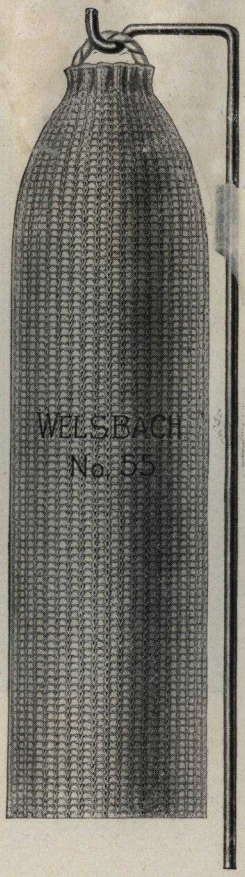
Each	$ 0.45
Per hundred	42.00

No. 197

Platinum Tied

Each	$ 0.53
Per hundred	50.00

Order by catalogue numbers



No. 36		No. 55	
Each	$ 0.53	Each	$ 0.32
Per hundred	50.00	Per hundred	30.00

No. 36. Gasoline Machine Gas. Heavy Weave

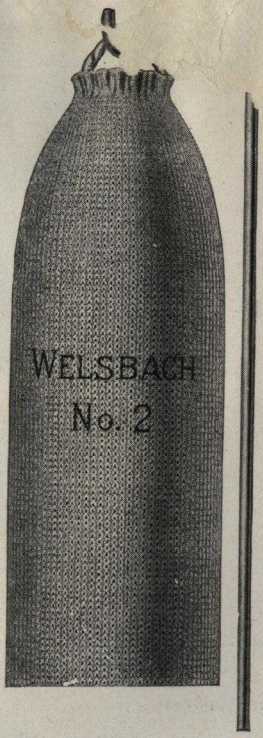
No. 55. High Pressure. Gasoline or Petroleum Lamps. Heavy Double Weave

Order by catalogue numbers

No. 2

Cap Mantle

Each.....$ 0.30
Per hundred..... 28.00



No. 2

Loop Mantle

Each.....$ 0.23
Per hundred..... 22.00

Order by catalogue numbers

No. 63

Each.....$ 0.25

Per Hundred..... 22.00

The above Cap Mantle is made special for No. 0205 Universal Burner

See Plate No. 1023

One Cubic Foot of Gas per hour gives 40 Candle Power

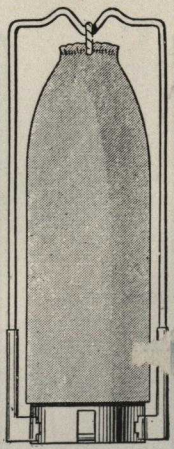
An Ideal Light, just the thing for nice Chandeliers

Order by catalogue numbers

Most Popular Mantle in Illinois

CHIEF BLACK HAWK.
Or Ma-ka-tai-me-she-kia-kiak

Our Black Hawk Mantle for Artificial, Natural or Gasoline Gas



No. 0184

Cap Only

Per dozen.....$ 4.50
Per hundred..... 30.00

Order by catalogue numbers

No. 0206

Per dozen ..... $ 4.50
Per hundred 30.00

No. 0207

Per dozen ..... $ 4.00
Per hundred 26.00

No. 0208

Per dozen ..... $ 3.60
Per hundred 22.00

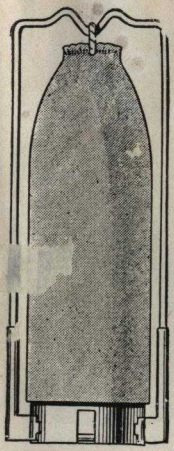
No. 0209

Per dozen ..... $ 3.00
Per hundred 14.00

Order by catalogue numbers

1800
9

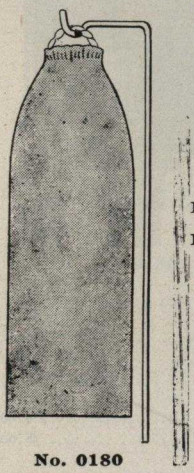
Williamson Special Mantles



No. 0183

Williamson Cap

Per dozen.....$ 3.00
Per hundred 18.00



No. 0180

Williamson Loop

Per dozen.....$ 2.00
Per hundred..... 14.00

Order by catalogue numbers

Triple Weave

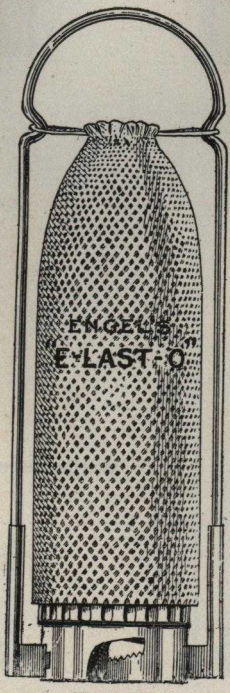
No. 0185

Per doz.....$ 4.56
Hundred..... 36.00

Triple Weave

No. 0186

Per doz.....$ 4.20
Hundred 32.00

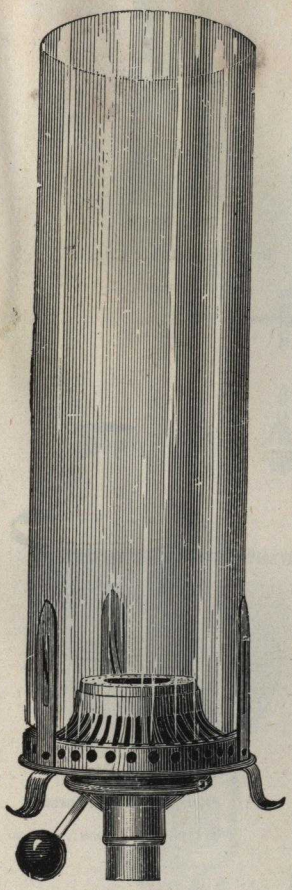


No. 0187

Per doz.....$ 4.80
Hundred..... 38.00

Order by catalogue numbers

Argand Burner D

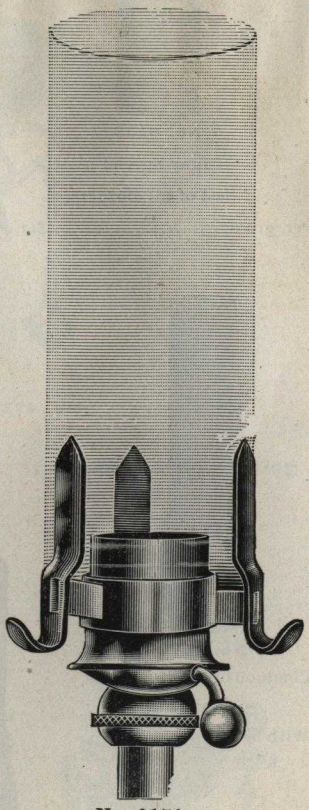


No. 0150

For City Gas

Burner only.....per dozen, $6.00
6-in. Chimney..... " " .80
7-in. Chimney..... " " .80

Argand Burner C



No. 0151

For Machine Gas

Burner only.....per dozen, $6.00
5-in. Chimney..... " " .80

Order by catalogue numbers

No. 0153

Bray Special

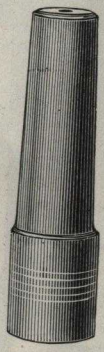
Best of all Burners

Per gross.....$12.00

No. 0152

Bray Adjustable Check Burner

Per gross.....$14.00

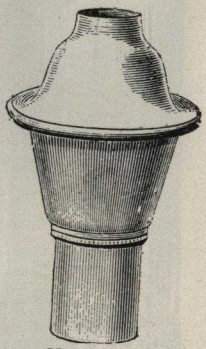


No. 0165

Common brass, gross, $4.50

No. 0165½

With fishtail tip,
gross $4.50



No. 0154

Empire Check Burner

No tips, per gross....$9.00

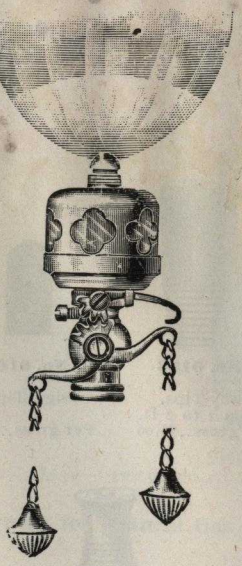
No. 0155

Iron Batwing

Per gross.....$7.00

Order by catalogue numbers

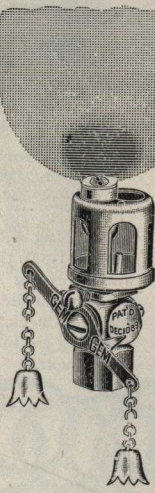
Matchless Self-Lighting Burners



No. 0174

Per dozen ..... $ 5.25

Gem Self-Lighting Burners



No. 0172

With Bray Tip.....per dozen, $ 6.00

Economic Self-Lighting Burners

No. 0173

Per dozen..... $ 7.00

Order by catalogue numbers

Lava E. H. Tip. From ½ to 12 ft.

"None Better,".....Per gross, $1.30
Von Schwartz ..... " " 2.50
Steward..... " " 2.50

No. 0169

No. 0149

Aluminum Tip.
From 2 to 8 ft.
Per gross..$3.50

No. 0166

Bray Tips.
From 1 to 6 ft.
Per gross..$6.00

No. 0163

Sign Tip.
Per gross..$3.50

No. 0164

Star Tip.
Per gross..$4.50

No. 0162

Scotch Tip.. Iron.
Per gross.....$4.00

No. 0159

Empire Base.
Per gross.....$4.50

No. 0161

Check Base for Double Burners. No tips.

Per gross.....$4.50

By using 2-foot or smaller tip in this base and screwing regular burner over it, makes the best Check Burner, reducing gas bills 25 to 40 per cent.

No. 0160

Brass Pillar for Lava Tip .....Per gross, $1.60

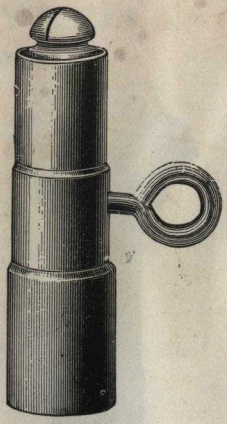
Order by catalogue numbers

Burners for Machine Gas

No. 0321

Mixer Burner

Per dozen.....$3.50



No. 0320

Clough Burner

Per dozen.....$5.50

Burners for Natural Gas

No. 0310

Jumbo Burner

Per dozen.....$2.50

No. 0311

Newmarket

Per gross.....$12.00

No. 0170

Paper Burner Washers

Used in place of lead under burners

Per box of 1,000.....$1.50

Order by catalogue numbers

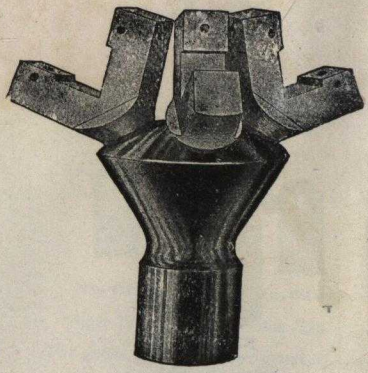
ACETYLENE BURNERS

Shaffer Acetylene Burners

No. 0251

Shaffer Champion. All-Lava Tip

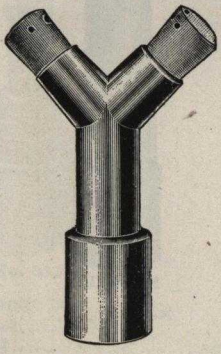
	¼, ½, ¾, ft.	1 ft.
Single Burner,	$ 0.50	$ 0.60
One dozen....	4.50	5.20
One gross.....	44.00	50.00



No. 0253

Shaffer Multiple. Solid All-Lava Tip

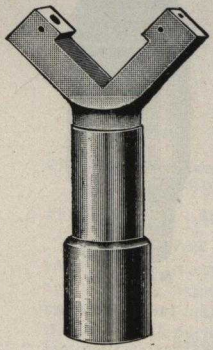
2 Flame Burner	.....	each,	$1.50
3 " "	.....	"	2.00
4 " "	.....	"	2.50
5 " "	.....	"	3.00



No. 0252

Shaffer Queen. Solid Round Tip

	¼, ½, ¾ ft.	1 ft.
Single Burner....	$ 0.60	$ 0.80
One dozen.....	6.00	7.00
1 to 5 gross.....	66.00	76.00



No. 0250

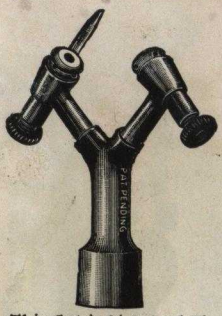
Shaffer Gem. All-Lava Tip

	¼, ½, ¾ ft.	1 ft.
Single Burner....	$ 0.60	$ 0.80
One dozen.....	6.00	7.00
1 to 5 gross	66.00	76.00

We are Sole Agents for Shaffer Burners and highly recommend them

Order by catalogue numbers

Drake Acetylene Burners



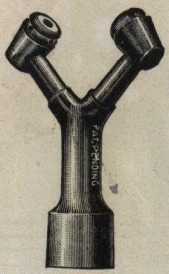
This Cut is ¾ Actual Size

No. 0266

Drake's Adjustable Acetylene Burner, No. 1

One side can be turned off and the other turned down for a hall or night light, or for other purposes where a small light is required temporarily. The little needle valve, at the same time, removes any obstruction from the rear of the gas orifice. Not designed to regulate all sized flames, but is made in ½, ¾ and 1 foot sizes when the needle valve is withdrawn. Can be turned into alignment.

Dozen.....$7.00



This Cut is ¾ Actual Size

No. 0269

Drake's Burner, No. 2

¼, ½, ¾, 1 foot

And for general purposes it has no equal, is made in five interchangeable parts, any one of which can be duplicated, and will fit any other part of either style. It can also be turned into alignment. Both styles are made of the best grades of brass. All threads cut 56 to the inch, and guaranteed not to leak. White finish in "nickel."

Dozen.....$5.00

Acetylene Burners

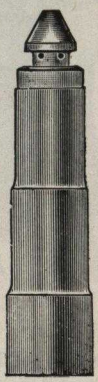
No. 0270

20th Century Burner

¼, ½, ¾, 1 foot

Dozen.....$ 3.00

Gross..... 30.00



No. 0268

Candle

Dozen.....$2.00

Resembles Candle Flame

No. 0254

Bray

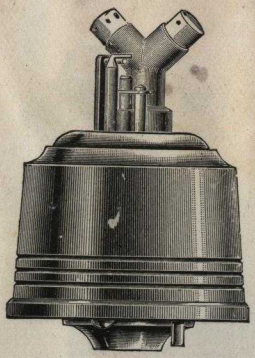
Dozen.....$ 1.30

2/0 3/0 4/0 5/0

Gross..... 15.00

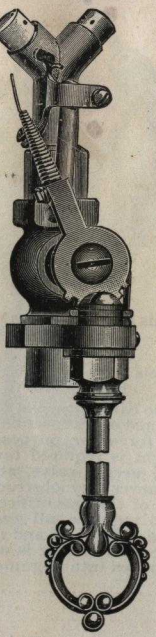
Order by catalogue numbers

Electric Gas Lighting Burners

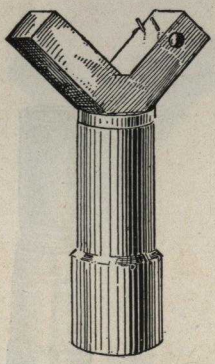


No. 052

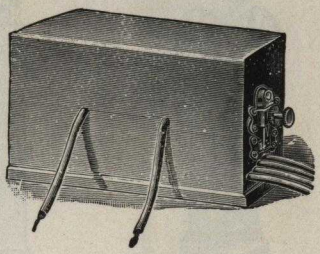
Advance Acetylene Vibrator Burner. For lighting Church Fixtures where lights are high from floor.
Each $4.25



No. 051
Advance Acetylene Gas Lighting Burner ..... each, $2.50



No. 0280
Electric Columbia Burner



No. 054
Coil

Farquharson's System of Electric Lighting
For Acetylene Gas

This system consists of No. 0280 Columbia Burner, fitted for sparking contact, with No. 054 1-inch Ruhmkorff Coil and Hylo Switch.

Burner ..... each, $ 4.00
1 inch Ruhmkorff Coil 30.00
4 point Hylo Switch 25.00

Order by catalogue numbers

Wonder Burners

No. 0257

No. 0257

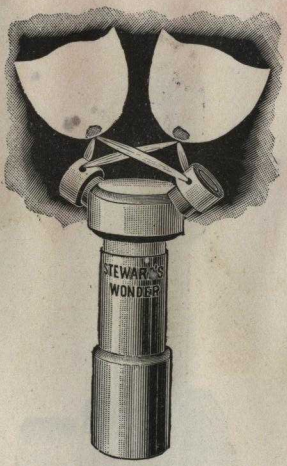
Wonder

1 Flame, each, $0.50
¼, ½, ¾, 1 foot

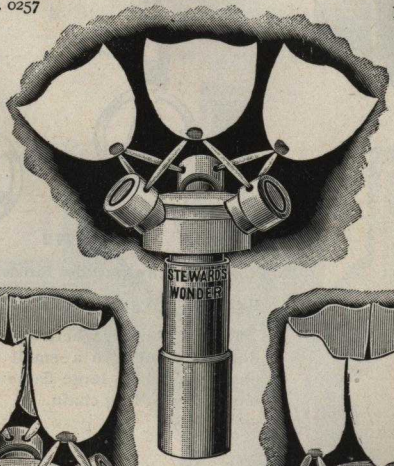
No. 0275

Wonder

2 Flame, each, $0.60
¼, ½, ¾, 1 foot



No. 0275

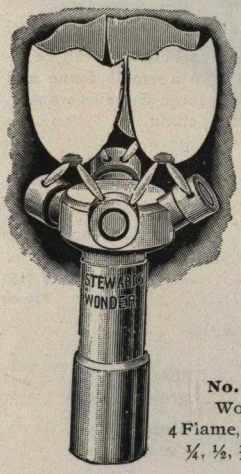


No. 0258

No. 0258

Wonder

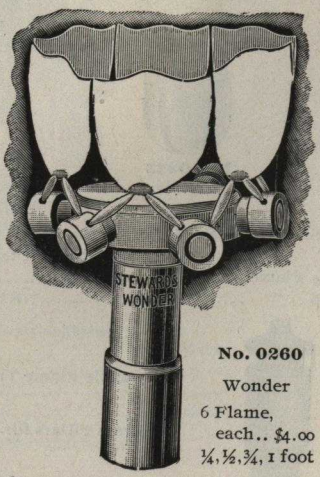
3 Flame, each, $1.00
¼, ½, ¾, 1 foot



No. 0259

Wonder

4 Flame, each, $3.00
¼, ½, ¾, 1 foot



No. 0260

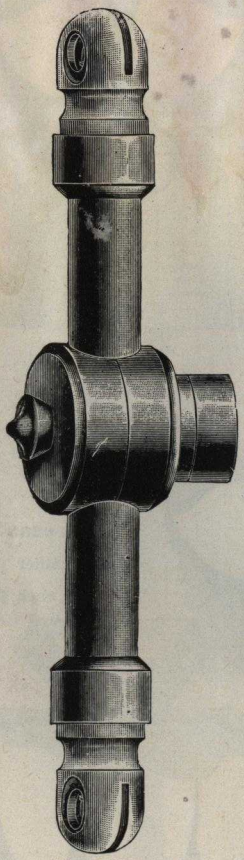
Wonder

6 Flame, each.. $4.00
¼, ½, ¾, 1 foot

We guarantee Wonder Burners

Order by catalogue numbers

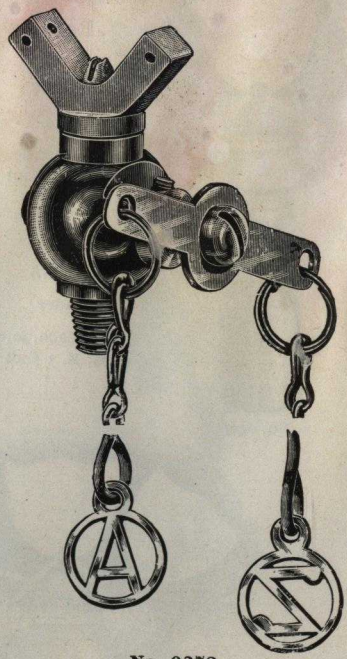
Schwarz Acetylene Burners



No. 0273

Schwarz Billiard Burner

Sizes No. 7, No. 8, No. 9, 2 Flame.....each, $ 5.50
Each tip, 2⅛, 2¼, 2½ cubic feet per hour at 3½ inch pressure
4 Flame.....each, $ 7.50
6 " ..... " 10.00



No. 0272

Schwarz Pilot Burner

Fitted with regular Pillar.....each, $4.00

The only burner where light can be reduced instantly to a small flame and changed back to large flame as wanted, simply by pulling chain.

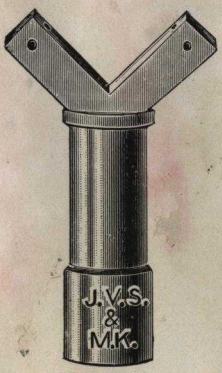
No. 0274

Candle Flame Tip.....dozen, $ 1.35
" " " .....gross, 15.00

Brass Pillars for same.....dozen, $0.50
" " " .....gross, 5.00

Order by catalogue numbers

Schwarz Acetylene Burners



No. 0256

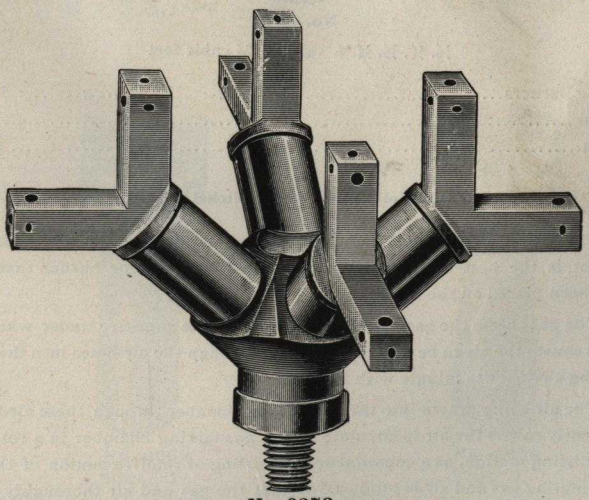
Schwarz

	¼, ½, ¾, ft.	1 ft.
Each	$ 1.00	$ 1.50
Dozen	8.00	12.00

No. 0271

Schwarz Baby

Each	$0.50
Dozen	5.50



No. 0278

The Schwarz Combination Burner

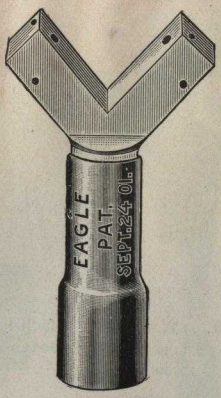
	Dozen	Each
2 Burner	$24.00	$2.50
3 "	30.00	3.50
4 "	36.00	4.50

Schwarz Burners are imported

Order by catalogue numbers

Type "E" Eagle Burner

Non-Carbonizing



No. 0277

⅛, ¼, ½, ¾, 1, 1¼ and 1½ cubic feet

Single Burners	$ 0.50
Dozen	5.00
Gross	50.00

Made of One Solid Piece Lava, Nickel Plated Pillar

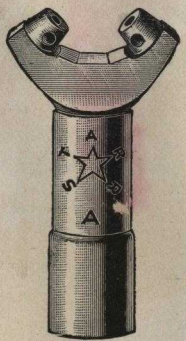
The Type "E" **EAGLE** Acetylene Gas Burner, patented September 24, 1901, is the best and most advanced scientific acetylene burner that has ever been placed on the market.

The gas enters the gas-mixing chamber and the pressure under which it flows causes the air to be drawn by suction through the air-holes into the gas-mixing chamber to mingle with the gas.

The air being drawn into the gas-mixing chamber through these air-holes tangently causes the air to circulate in the gas-mixing chamber in a rotative or whirling motion, as a consequence a whirling or rotative motion of the intermingling gas and air is produced so that the gas and air thoroughly combine before delivery at the mouth of the mixing chamber, thus insuring complete combustion.

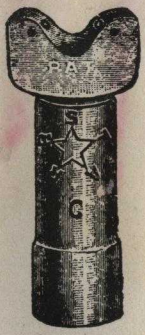
This explanation may be somewhat technical, but it must be admitted that by getting a thorough mixture of gas and air perfect combustion is obtained, perfect carbonization of the burner is avoided, and a larger volume of light with the same amount of gas is assured.

Starr Acetylene Burners



No. 0261
Starr "A"

Dozen ..... $ 5.00
Gross 50.00
⅛, ¼, ½, ¾, 1 foot



No. 0263
Starr "C"

Dozen ..... $ 2.50
Gross 24.00
⅛, ¼, ½, ¾, 1 foot

No. 0262
Starr "G"

Dozen ..... $ 5.00
Gross 50.00
⅛, ¼, ½, ¾, 1 foot

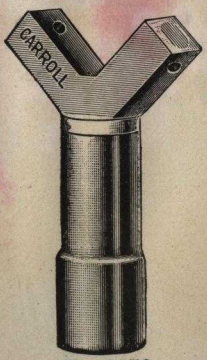
No. 0264
Starr "F"

Dozen ..... $ 3.50
Gross 36.00
⅛, ¼, ½, ¾, 1 foot

All are of the Latest Improved Patterns

Order by catalogue numbers

Carroll's Columbia and Hahn Burners

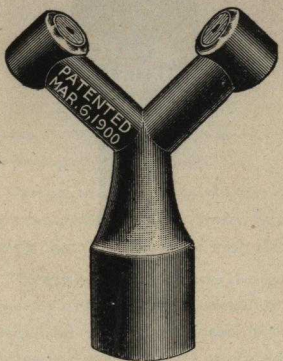


No. 0279

Columbia Burner

¼, ½, ¾ foot.....each, $0.60
¼, ½, ¾ " .....dozen. 6.00
1 foot.....each, $0.80
1 " .....dozen, 7.00

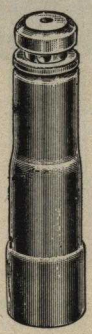
Its special features are: All-lava, non-carbonizing, perfect alignment, beautiful combustion. Made by skilled mechanics with five years' experience along this line. Each burner tested and guaranteed.



No. 0255

Popular Improved Hahn

¼, ½, ¾, 1 foot.....each, $0.40
¼, ½, ¾, 1 " .....dozen, 4.00



No. 0276

Hahn Candle Burner

Each $0.40
Dozen..... 4.00

Desirable where small light only is required; also for candle clusters.

Order by catalogue numbers

NOTE CHANGE IN PRICE

—OF—

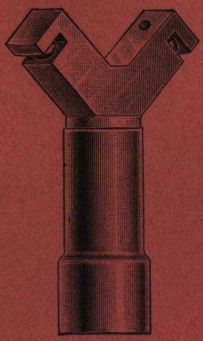
Columbia Burners

(Plate 1066)

Price, All Sizes, = = = Each, $0.50

Price, " " = = = Per Dozen, 4.50

THE NEW "AUTO" ACETYLENE BURNER



Made in ¼, ½, ¾ and 1 Foot Sizes.

Suitable for Acetylene Lighting of all Kinds.

The Highest Efficiency.

The Small Holes are Dust Proof.

Each $0.50

Per Dozen 5.00

No. 053

Advance Automatic Electric Lighting Burner for Acetylene Gas, with Pilot Tube and Valve.

Not Illustrated ..... Each, $8.50

ACETYLENE BURNER CLEANERS

Clean your burners and thus secure the greatest efficiency and durability. To secure the best results, acetylene burners must be kept clean. The "Columbia" Burner Cleaner does the work.

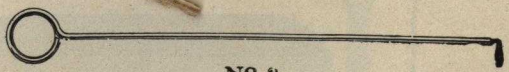
Columbia

No. 0325

Dozen $2.50
Each ..... .30

Williamson Acetylene Burner Cleaner

№ 1



№ 2

№ 3

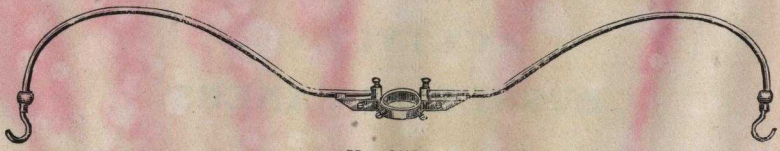
No. 0329

Size No. 1 ..... dozen, $1.75
" " 2 ..... " 1.50
" " 3 ..... " 1.25

The best results are obtained when acetylene burners are kept clean. The above devices will do the work thoroughly.

Order by catalogue numbers

Smoke Bell Frame.



No. 0522

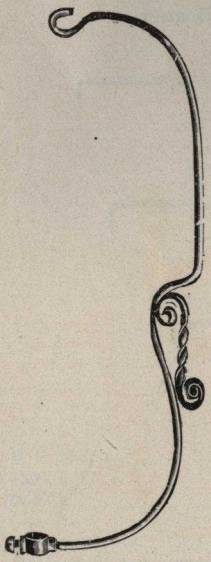
2 Light.....each, $1.50 3 Light.....each, $2.25 4 Light.....each, $3.00

Nickel Burner Cleaner

No. 0328

Wooden handle.....Per doz., $1.20

Upright Holder for Smoke Shade



No. 0520
Fits over Burner.
Per doz.....$6.00

Common Burner Cleaner.

No. 0326

Per dozen.....$0.40

Steel Burner Cleaner.

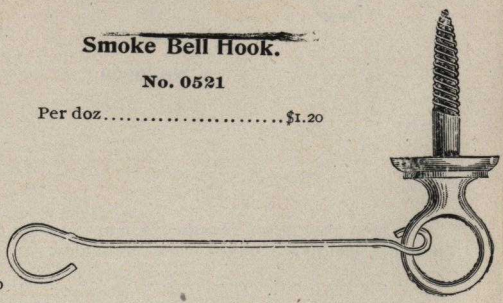
No. 0327

Per dozen.....$0.60

Smoke Bell Hook.

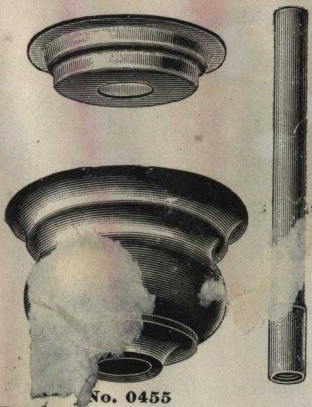
No. 0521

Per doz.....$1.20



Order by catalogue numbers

Candle Cup, Seat and Stem



No. 0455

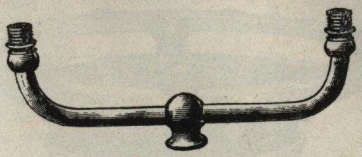
Per dozen.....$3.00

Candle Cup and Stem

No. 0449

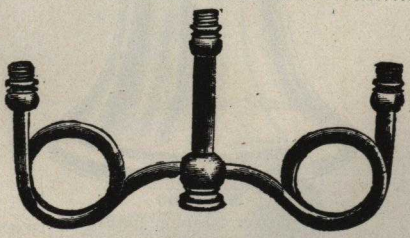
Per dozen.....$2.50

In ordering specify length of Candle



No. 0454

2	Light	Cluster.	Rich	Gilt	each,	$0.60
3	"	"	"	"	"	.85
4	"	"	"	"	"	1.10



No. 0456

2	Light	Cluster.	Rich	Gilt	each,	$1.00
3	"	"	"	"	"	1.50
4	"	"	"	"	"	2.00

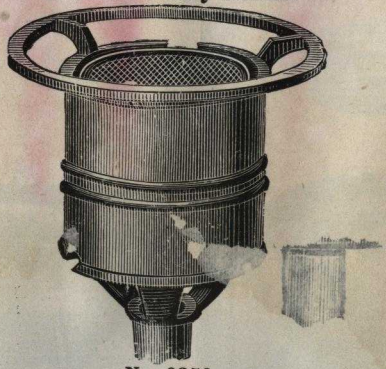
No. 0457

2	Light	Cluster with Keys.	Rich	Gilt	each,	$1.25
3	"	"	"	"	"	1.75
4	"	"	"	"	"	2.25

Clusters are Threaded Burner size

Order by catalogue numbers

Climax Nursery Burner

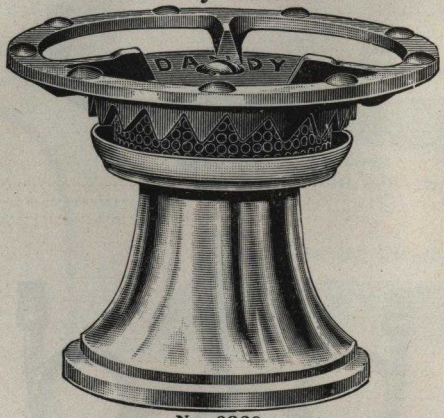


No. 0350

Makes Blue Flame and fits over common Burner

Per dozen..... $1.00

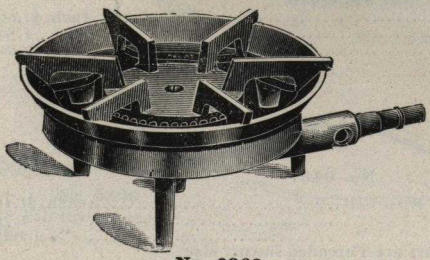
Dandy Heater



No. 0360

Fits over common Burner

Per dozen..... $4.50



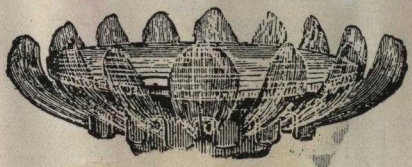
Gas Stove

Each..... $2.00

No. 0362

Order by catalogue numbers

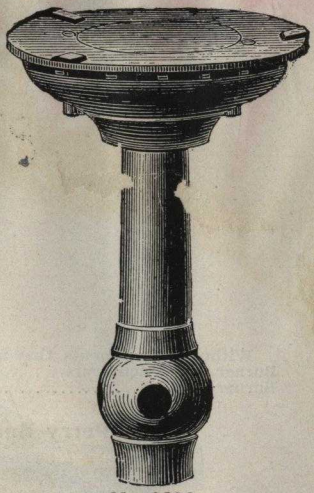
Novelty Burner



No. 0353

No. 1. Per dozen.....$4.00

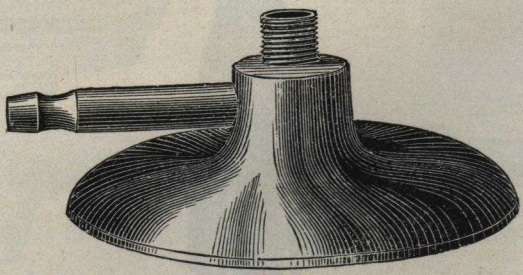
Monitor Burner



No. 0352

No. 2. Per dozen.....$ 9.00
No. 3. Per dozen..... 10.00

Monitor Stand

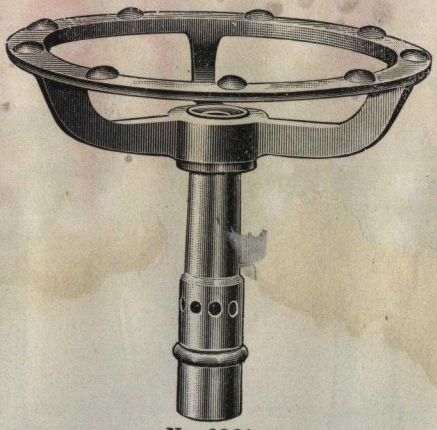


No. 0354

No. 1. Per dozen.....$3.00
No. 2. Per dozen..... 6.00
No. 3. Per dozen..... 9.00

Order by catalogue numbers

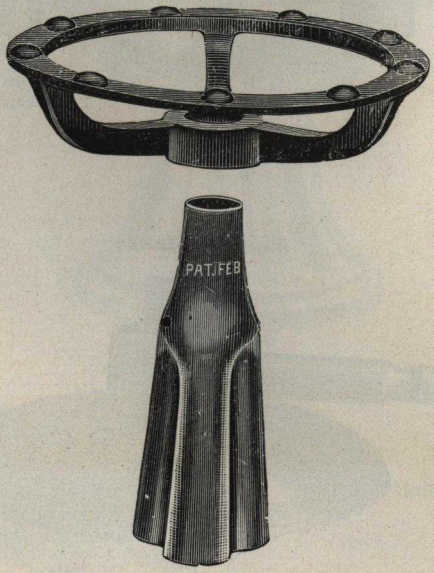
Atmospheric Burner



No. 0361

Without attachments they make the best burner to singe hogs, fowl, etc.
Burner and attachments.....per dozen, $5.00
Burner only..... " " 2.50

Perry Burner and Attachment

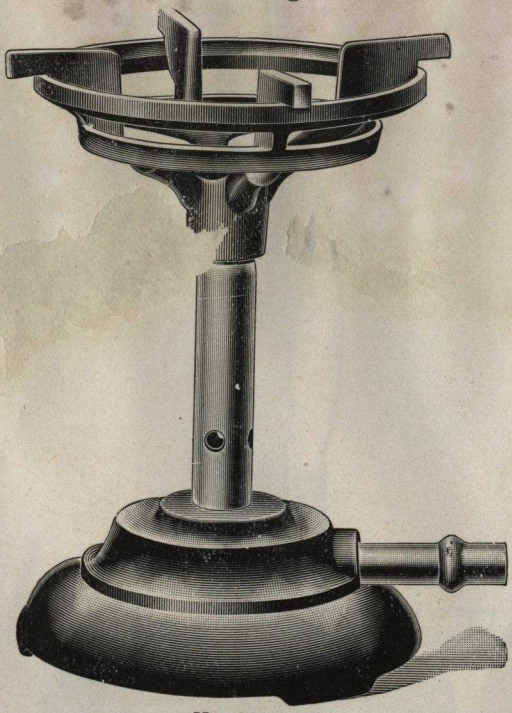


No. 0351

Makes perfect blue flame. For soldering, heating, etc.
Burner and attachment.....per dozen, $5.00
Burner only..... " " 2.50

Order by catalogue numbers

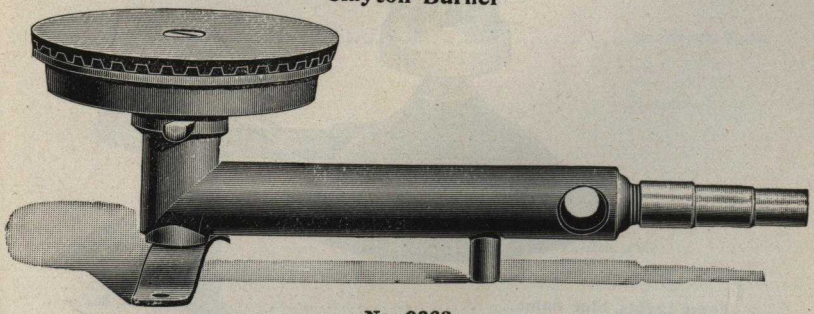
Dental Heating Burner



No. 0357

For Rubber Tubing, per dozen..... $7.00

Clayton Burner



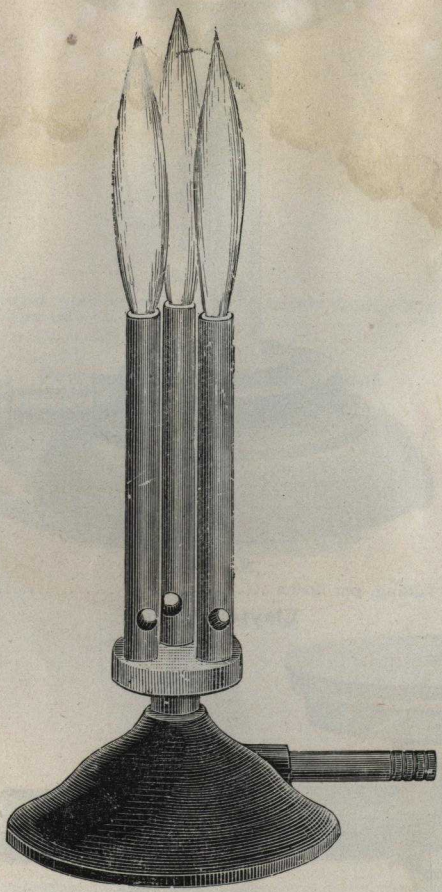
No. 0363

A low Heater for use Under Urns, Chafing Dishes, Steam Tables, Plate Warmers, etc.

No. 1, 1⅞ in. diameter, 2½ in. high, per dozen..... $4.25
No. 2, 2¼ in. diameter, 2½ in. high, per dozen..... 5.00
No. 3, 3 in. diameter, 2½ in. high, per dozen..... 6.00

Order by catalogue numbers

Bunsen Heating Burner



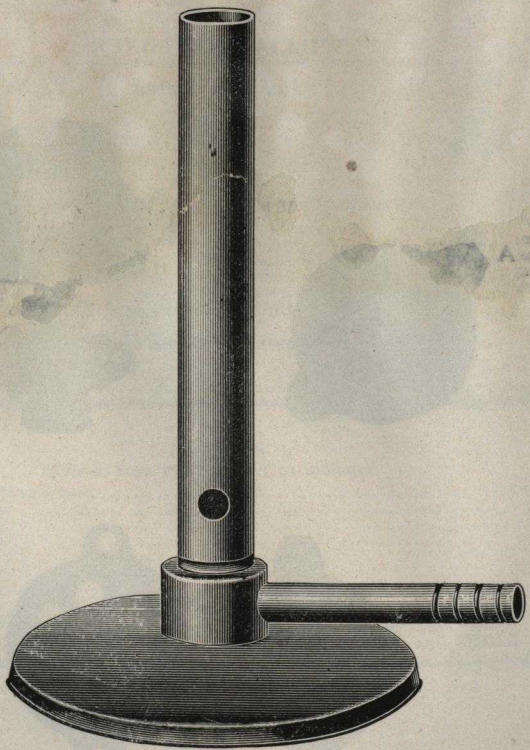
No. 0356

Three Lights, blue flame..... per dozen, $24.00

For Doctors, Dentists, Jewelers, Soldering, Heating, etc.

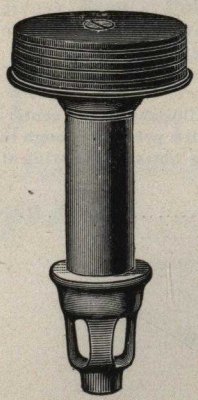
Order by catalogue numbers

Bunsen Burner



No. 0355

One light, gives blue flame.....per dozen, $9.00



No. 0358

Invincible Burner

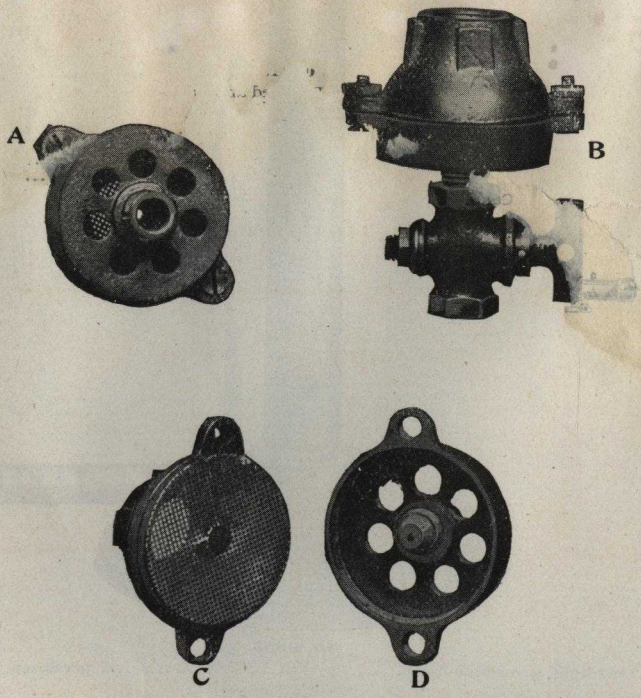
For Urns, Steam Tables, etc.

Per dozen.....$8.00

Order by catalogue numbers

WILLIAMSON MIXER

For Gas Grates



A Illustrates the bottom exterior of air-mixer, showing gauze used to prevent the gas from lighting back, thus avoiding a smoky flame.
B Shows air-mixer complete, ready for use, with gas-cock attached.
C Shows interior view of top half of air-mixer.
D Shows interior view of bottom half of air-mixer, illustrating the center-nipple which the supply of gas goes through, with pressure enough to draw the air or oxygen through the surrounding holes, thus saving at least 50 per cent of cost of gas to the consumer.

No. 0365. Mixer only ..... each, $1.00
No. 0366. Gas Cock only..... " .75

Mention if for Natural, Artificial, or Gasoline Machine Gas.

Window Rail Lighting Fixtures

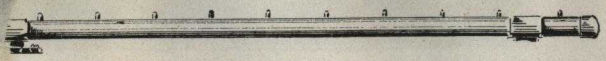
No. 01115

Made of Brass Pipe, Polished and Lacquered

4 feet long,		4 burners		.00
5 "	"	5 "		5.00
6 "	"	6 "		24.00
8 "	"	8 "		32.00
10 "	"	10 "		40.00

.. be fed from either end or through brackets

Window Thawer

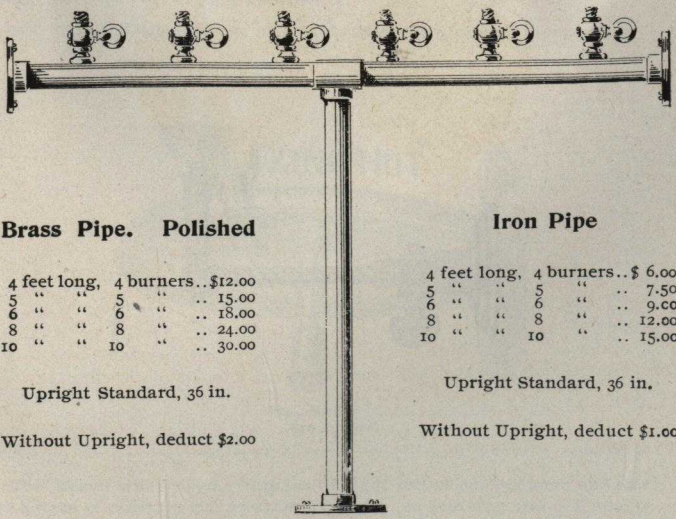


No. 01116

Made of Iron Pipe. Gas Tips included

4 feet long,		8 burners		$ 6.00
6 "	"	12 "		9.00
8 "	"	16 "		12.00
10 "	"	20 "		15.00

Can be fed from either end



Brass Pipe. Polished

4 feet long,		4 burners		$12.00
5 "	"	5 "		15.00
6 "	"	6 "		18.00
8 "	"	8 "		24.00
10 "	"	10 "		30.00

Upright Standard, 36 in.

Without Upright, deduct $2.00

Iron Pipe

4 feet long,		4 burners		$ 6.00
5 "	"	5 "		7.50
6 "	"	6 "		9.00
8 "	"	8 "		12.00
10 "	"	10 "		15.00

Upright Standard, 36 in.

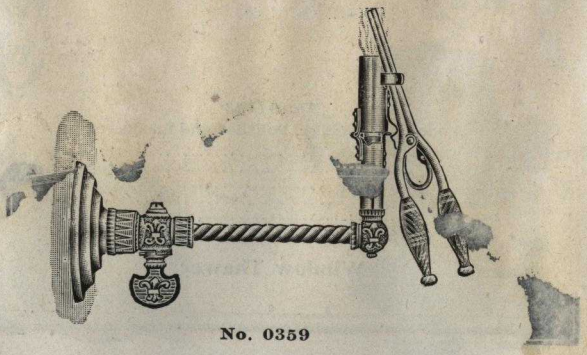
Without Upright, deduct $1.00

No. 01117

State which is wanted, Brass or Iron.

Order by catalogue numbers

Curling Iron Heater

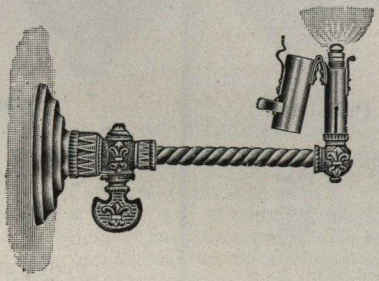


No. 0359

In use, holding curling iron

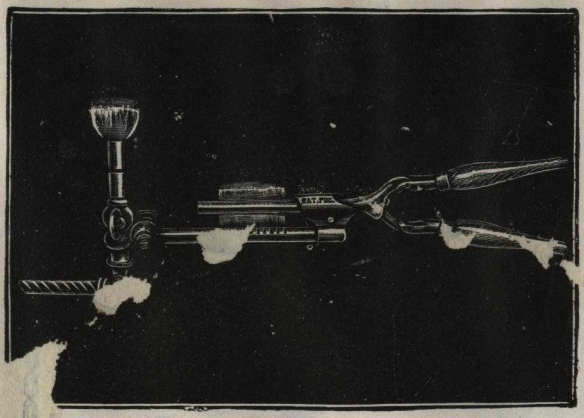
Each $0.50

Nickel plated. Not necessary to remove from burner when not in use.



Not in use.

Williamson Curling Iron Heater



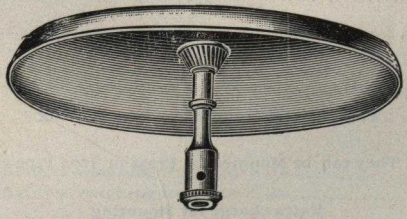
No. 0364

.....$1.25

Remove the burner from the Gas Fixture, and screw the "Iron Heater" on in its place; then replace the burner and it is ready for use. If a globe is used on the fixture, the globe holder is to be placed immediately under the burner and above the Curling Iron Heater.

Both light and heater can be used at the same time, or each independent.

"BLAZING HOT"



No. 0367

Each.....$1.00

This Heater will consume from six to eight feet of gas per hour, and will heat a room of ordinary size in from seven to ten minutes, and will hold it at a temperature of seventy degrees in ordinary winter weather.

Order by catalogue numbers

WILLIAMSON

No. 0422. Gas Signs

5 to 6-inch letter	each, $2.00
8 to 10-inch letter	" 2.50
15-inch letter	" 3.50
18-inch letter	" 4.50

These letters are made of Brass Tubing

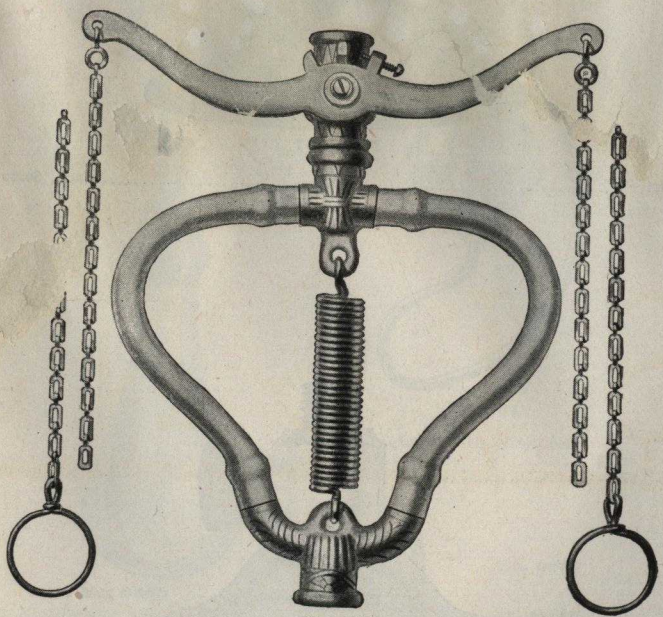
They can be Mounted on Brass or Iron Pipe

Extra charge for Mounting

Special designs such as Crosses, Crowns and Lodge Emblems to order

Order by catalogue numbers

Anti-Vibration Fixture

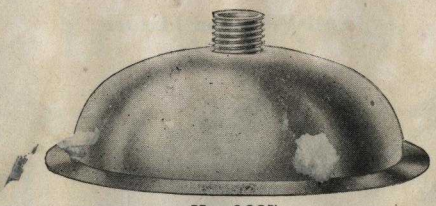


No. 075

Furnished with or without long lever by-pass cock. Tapped for ⅜-in. iron pipe.

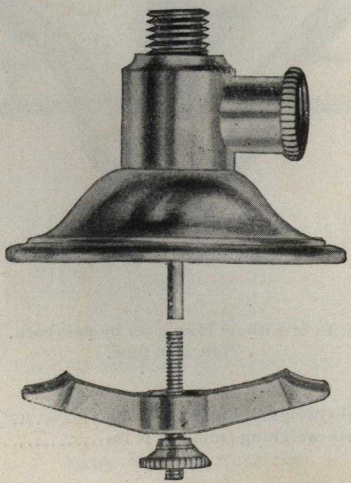
Style 2. For fixtures weighing from 4 to 8 lbs..... each, $2.50
Style 3. For fixtures weighing from 8 to 16 lbs..... " 3.00

Without long lever by-pass cock, deduct 50 cents list.



No. 0687

Price.....each, $0.60



No. 0686

Price.....each, $0.75

By the use of the above fittings an Oil Lamp can be used as a Gas Lamp

Order by catalogue numbers

Cigar Lighter

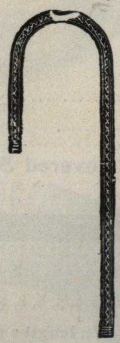
No. 0650

Glass Handle with 2-ft. Hose and Goose Neck with attachments, complete.....each, $ 2.00
Complete .....per dozen, 20.00
Cigar Lighter as shown...each, 1.50
Cigar Lighter Hose. 18 in. long, ...each, .40
Cigar Lighter Hose, 2 ft. long, ...each, .50
Cigar Lighter Hose, 3 ft. long, ...each, .70
Goose Neck, with attachments, ... each .30

Mascot Cigar Lighter

No. 0651

Cigar Lighter with Hose, complete..... ..... $3.30
Lighter only..... ..... 2.50



No. 0657

Goose Neck for Cigar Lighter, with Attachment

Each..... $0.30
⅛ Iron x 5/16 Brass

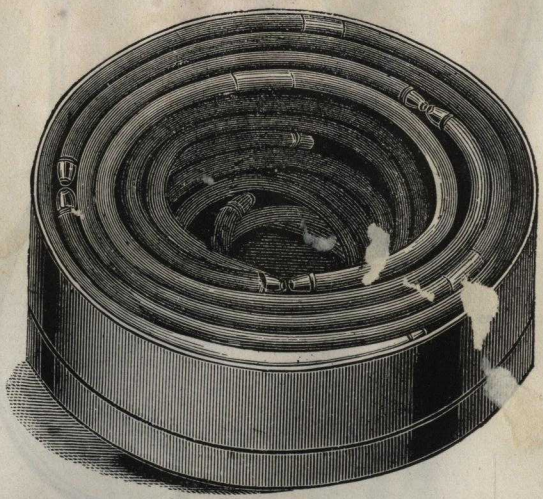
No. 0658

Cigar Tubing.

18 in. long .....each, $0.40
24 in. long ..... " .50
36 in. long ..... " .70

Order by catalogue numbers

Mohair Portable Tubing for Portable Lamps



No. 0660

Assorted Colors—6, 8, 10 and 12 feet long.

7-16 Brass x 5-16 Brass Ends, to fit Portable Lamps and Stork Necks.

Single Dip.....per foot, $0.07
Double Dip..... " " .10

No. 0664

Silk Portable Tubing.....per foot, $0 30

Covered Stove Tubing

No. 0661

2, 3, 4, 5, 6, 8, 10, 12-foot lengths.

2-ft. and 3-ft. lengths prices same as 4-ft. lengths.

Single Dip.....per foot, $0.06
Double Dip..... " " .08

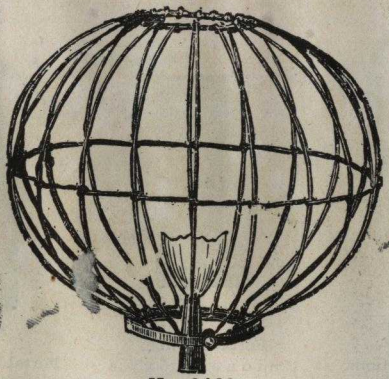
Covered Elevator Hose

No. 0662

Per foot.....$0.50

Order by catalogue numbers

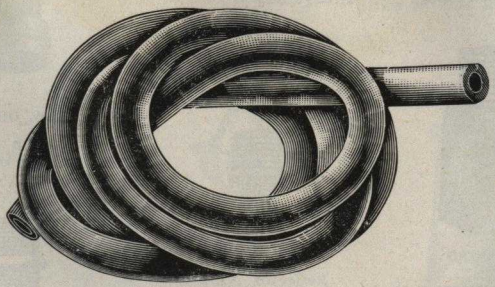
Wire Globe



No. 0460

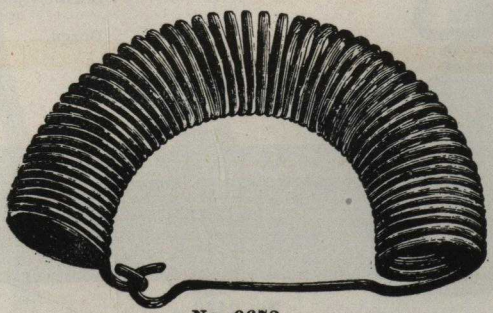
Dozen..... $4.00

Rubber Hose



No. 0663

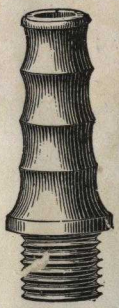
¼-inch..... per foot, $0.12
⅜-inch..... " " .14
½-inch..... " " .16



No. 0672

Goose Neck for Rubber Hose
Prevents Hose from kinking where connection is made.....per dozen, $1.50

Order by catalogue numbers



No. 0682

Portable connections, male, 7-16 inch

Dozen.....$2.50

Screws into Portable Lamps so as to use Rubber End Tubing.

No. 0684

Portable Tube.

Unions, 7-16 x 7-16 inch

Dozen.....$1.50

Connects 2 pieces without using the Brass Ends.

N

Portable fema...

Dozen.....

No. 0692

Extension Nozzle, ⅛x⅛ inch

Dozen.....$0.75

No. 0685

Tube Connections, 7-16 female x 5-16 male

Dozen.....$1.50

Connects 2 pieces together.

No. 0690

Reflector Nipple, 5-16x⅛ inch

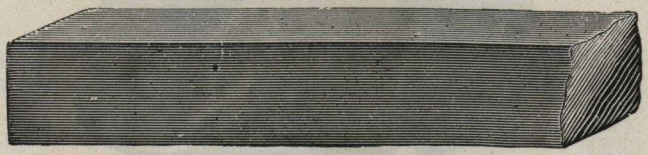
Dozen.....$0.50

No. 0693

Brass Nipple, ⅛ x ⅛ inch

Dozen.....$0.60

Gasfitters' Cement

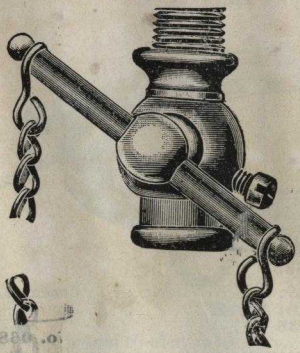


No. 0420

5-pound package.....$1.50

Order by catalogue numbers

By-Pass Cocks



No. 0168

Dozen..... .....$3.00

Stork Neck

No. 0671

Fits portable or stove tubing, and fits pillar without use of socket

Dozen..... .....$2.50

No. 0670

Stork Neck
For Portable
Tubing

5-16 in....doz., $2.00

No. 0678

Gum Socket
For Stork Neck

5-16 in...doz., $2.50

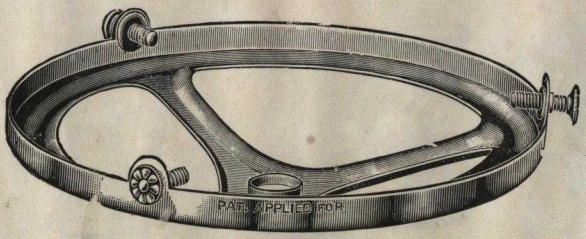
No. 0680

Ground Joint
Fits Stork Neck

5-16 inch.....dozen, $2.75

Order by catalogue numbers

Globe and Shade Holders

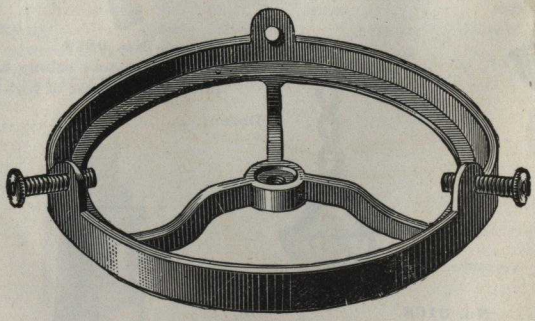


No. 0535

Globe Holder, inch..... .....dozen, $1.00

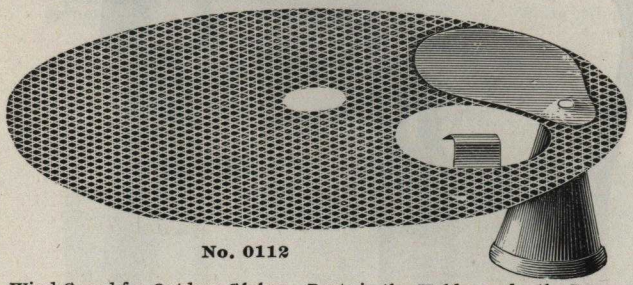
No. 0536

Globe Holder, 5 inch.....dozen, $1.20



No. 0530

Heavy Cast Brass Holder, 4 inch..... .....dozen, $6.00
" " " " 5 " ..... " 8.00
Mention size wanted

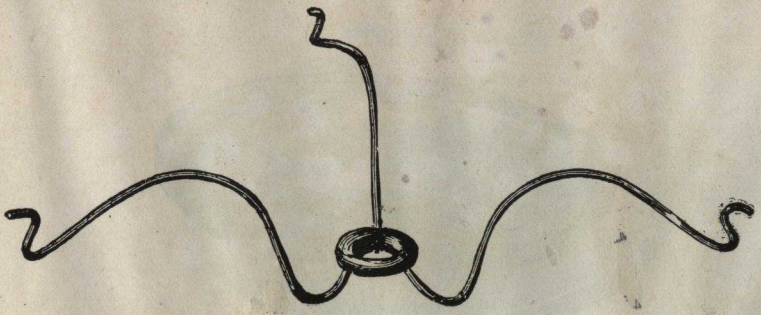


No. 0112

Wind Guard for Outdoor Globes. Rests in the Holder under the Burner

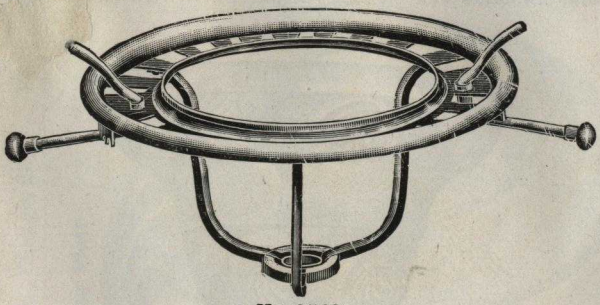
4-inch, with Slide.....each, $0.35 4-inch, no Slide.....each, $0.20
5 " " " ..... " .40 5 " " " ..... " .25

Order by catalogue numbers



No. 0526

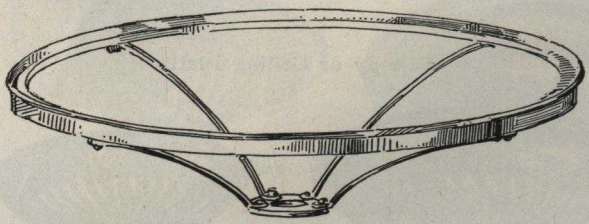
No. 0526. Shadeless Holder, 10-in.....per doz., $2.00
No. 0527. " 12-in..... " " 2.50



No. 0542

4-in. Adjustable Holder, gilt.....per doz.. $4.00

Made with a special lock. Removing all danger of globes falling off.



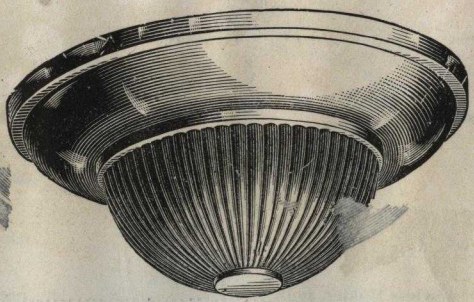
No. 0539

No. 0539. Shade Ring, 10-in.....per doz.. $10.00
No. 0540 " " 12-in..... " " 13.50

A superior Holder for supporting 10 or 12-in. shades. They are held in position by the burner being screwed hard down on them.

Order by catalogue numbers

Canopies



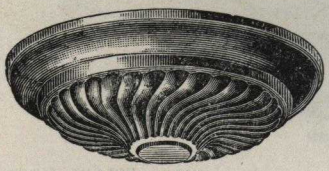
No. 0411

Rich Gilt. 4½ inches wide, 2½ inches deep.....each, $0.40

No. 0410

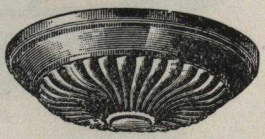
Rich Gilt. 4½ inches wide, 2¾ inches deep.....each, $0.60

Canopy or Ceiling Plates



No. 0412

Rich Gilt. 5 inch diameter, each.....$0.20



No. 0413

Rich Gilt. 4 inch diameter, each.....$0.15

Always state what size of pipe they are to fit

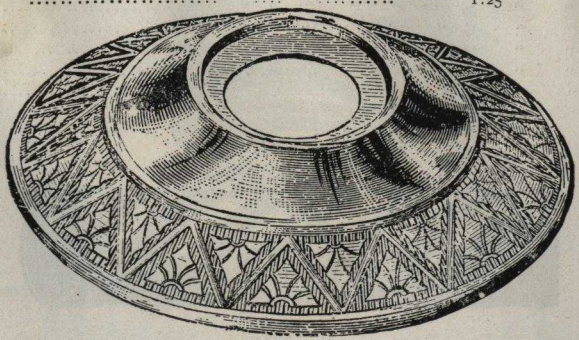
Order by catalogue numbers

G RINGS, ETC.

r Rings

No. 0400

		dozen, $0.50	gross, $ 4.00
3		" .60	" 6.00
4	"	" 1.25	" 10.00



Stamped Ceiling Plate

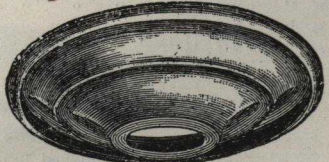
No. 0401

2½ inch.....dozen, $0.30 gross, $2.50

Stamped Burner Cup

No. 0405

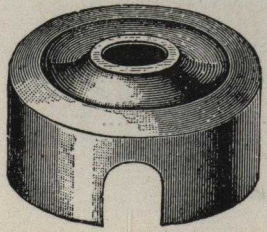
Dozen.....$0.20 gross, $2.00



Spun Burner Cup

No. 0406

Dozen.....$0.30 gross, $2.50



Box Plate

No. 0402

For Covering Fitting where pipe is exposed

Dozen.....$1.50

Order by catalogue numbers

Canopi[illegible] TUBING

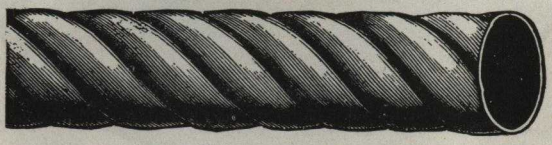
Casing

No. 0415

Polished Brass or Rich Gilt

½	inch covers,	⅛	inch iron pipe, 6 foot lengths	[illegible].20
⅝	" "	¼	" " " " "	.30
¾	" "	⅜	" " " " "	1.40
15-16	" "	½	" " " " "	1.75
⅞	" "	¼ or ⅜	inch iron pipe, 6 foot lengths	1.65
1	" "	¼, ⅜ or ½	inch iron pipe, 6 foot lengths	1.85
1¼	" "	¼, ⅜ or ½	" " " " "	1.95

Rope Casing



No. 0416

Polished Brass or Rich Gilt

⅝	inch covers,	¼	inch iron pipe, 6 foot lengths	$1.56
¾	" "	⅜	" " " " "	1.68
⅞	" "	⅜	" " " " "	2.00
1	" "	½	" " " " "	2.20

Hexagon Casing

No. 0417

Polished Brass or Rich Gilt

¾	inch covers,	⅜	inch iron pipe, 6 foot lengths	$1.68
⅞	" "	⅜	" " " " "	2.00

Brass Tubing

No. 0414

5-16	inch Brass Tube			foot, $0.25
⅜	" "	"		" .30
½	" "	"		" .35

All the above are lacquered. Always state size wanted

Order by catalogue numbers

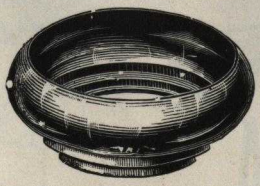
SEATING RINGS, ETC.

Chandelier Rings

No. 0425

	Dozen	Gross
Seats 5/8 inch casing, slips 1/8 inch pipe	$0.30	$3.00
" 3/4 " " " 1/8 " "	.30	3.00
" 7/8 " " " 1/8 " "	.30	3.00
" 5/8 " " " 1/4 " "	.30	3.00
" 3/4 " " " 1/4 " "	.40	4.00
" 7/8 " " " 1/4 " "	.40	4.00
" " " " 1/4 " "	.50	5.00
" " " " 3/8 " "	.50	5.00

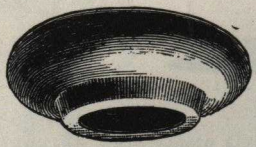
Double Seating Rings



No. 0424

	Polished		Dozen	Gross
Top seats 5/8 inch casing, bottom 5/8 or 3/4 inch, slips 1/4 inch pipe			$0.40	$4.00
" 3/4 " " " 5/8 or 3/4 " " 1/8 " "			.40	4.00
" 7/8 " " " 3/4 or 7/8 " " 1/4 " "			.50	5.00
" 1 " " " 7/8 or 1 " " 3/8 " "			.60	6.00
" 1 1/8 " " " 1 or 1 1/8 " " 3/8 " "			.70	7.00

Single Seating Rings



No. 0426

	Polished		Dozen	Gross
Top seats 1/2 inch casing, bottom 5/8 inch, slips 1/8 inch pipe			$0.30	$3.00
" 5/8 " " " 5/8 " " 1/8 " "			.30	3.00
" 3/4 " " " 3/4 " " 1/8 " "			.30	3.00
" 3/4 " " " 3/4 " " 1/4 " "			.40	4.00
" 7/8 " " " 3/4 " " 1/8 " "			.40	4.00
" 7/8 " " " 3/4 " " 1/4 " "			.40	4.00
" 7/8 " " " 7/8 " " 1/4 " "			.40	4.00
" 7/8 " " " 7/8 " " 3/8 " "			.40	4.00
" 1 " " " 1 " " 1/4 " "			.50	5.00
" 1 1/8 " " " 1 1/8 " " 3/8 " "			.75	7.00
" 1 1/4 " " " 1 1/4 " " 1/4 " "			.75	7.00

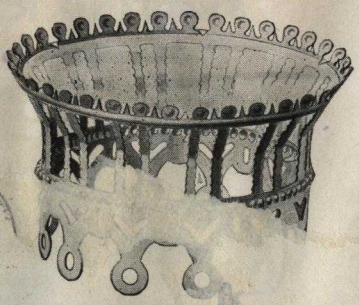
Order by catalogue numbers

Mica Goods

No. 0593

Mica Canopy for Chimney

Per dozen.....$1.25



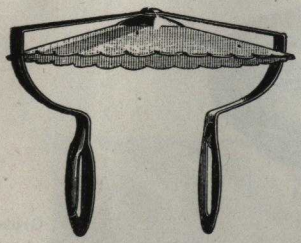
No. 0601

Crown Smoke Catcher and Bu

For regular Chimney.....per doz.,

No. 0601½

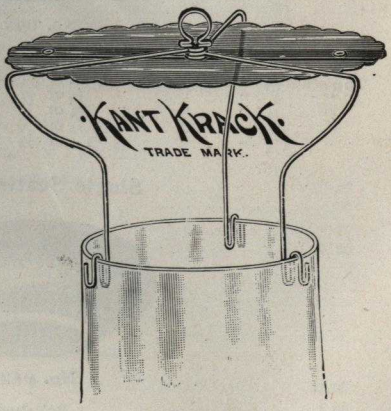
For light-house Chimney, per doz., $3.00



No. 0591

Mica Canopy for Chimney

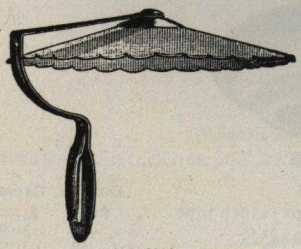
Per dozen.....$1.00



No. 0592

Mica Canopy for Chimney

Packed in envelopes.....per dozen, $0.75



No. 0590

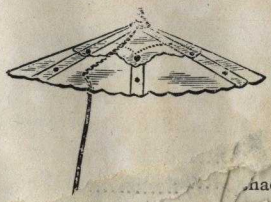
Mica Canopy for Chimney

Per dozen.....$0.80

Order by catalogue numbers

Mica Goods

Mica Canopy



...nad

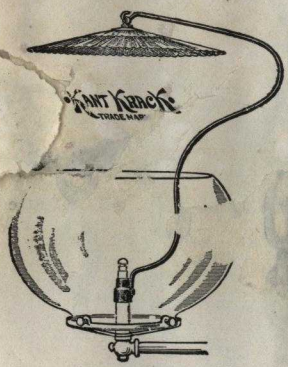
7-incn, per doz...
8 " "
9 " "

No. 0598

...its over Burner

.....per dozen, $3.50

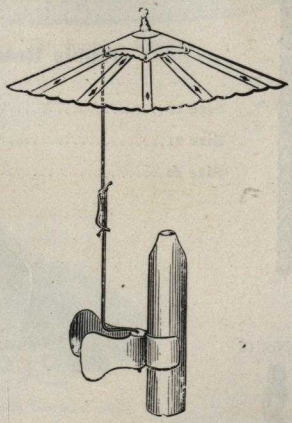
Mica Canopy for Globe



No. 0595

6½-inch .....per dozen, $3.75
8 -inch ..... " " 5.25

Mica Canopy for Candles



No. 0594

3½-inch .....per dozen, $3.00

Adjustable in Height

Mica Canopy to Hang

No. 0599

6½-inch .....per dozen, $3.00

No. 0600

8-inch.....per dozen, 4.50

Mica Canopy for Globe

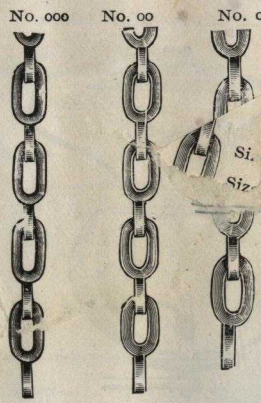
No. 0596

6½-inch, ...per dozen, $3.00

No. 0597

8-inch.....per dozen, 4.50

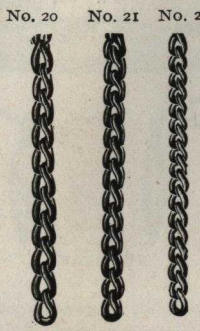
Order by catalogue numbers



No. 0550

Safety Brass Chain

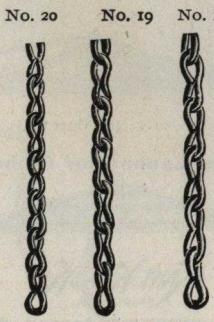
Size [illegible] ..... per yard, $0.12
Size [illegible] ..... " " .12
Size 0 ..... " " .12



No. 0551

Double Brass Chain

Size 20 ..... per yard, $0.08
Size 21 ..... " " .08
Size 22 ..... " " .08



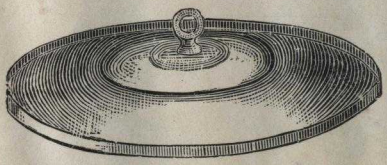
No. 0552

Single Brass Chain

Size 20 ..... per yard, $0.07
Size 19 ..... " " .08
Size 18 ..... " " .08

Order by catalogue numbers

Smoke Shades

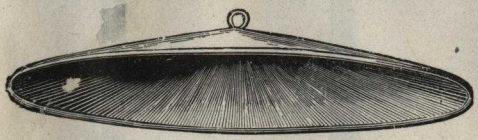


No. 0566. Brass Smoke Shade

7-inch, per doze	[illegible]
8 " "	5.25
9 " "	6.00

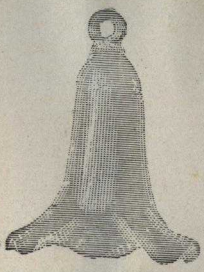
No. 146. Opal Smoke Shade

5-inch, per dozen	$3.00
6 " "	3.30
7 " "	3.50
8 " "	4.50
10 " "	6.75

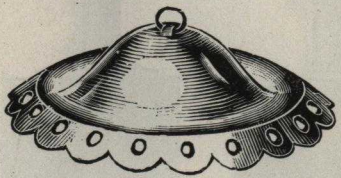


No. 0565. Tin Smoke Shade

6-inch, per dozen	$2.00
7 " "	2.50
8 " "	3.00

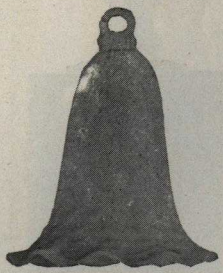


No. 147. Smoke Bell
Opal, 4-in., per doz. $1.80



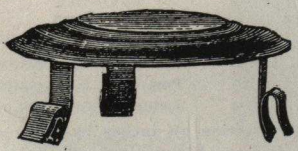
No. 0567. Brass Smoke Bell

3 inch, per dozen $3.00



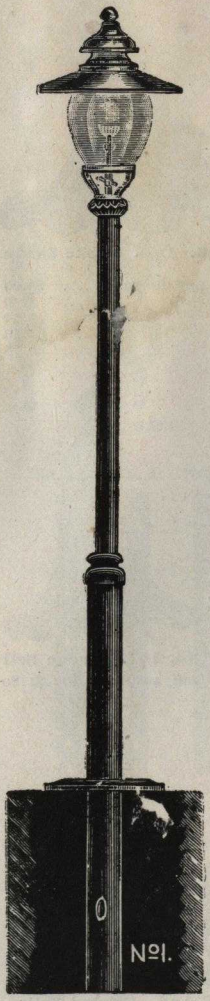
No. 148. Colored Bells

6-inch Amber, per doz.	$ 6.00
6 " Blue, "	6.00
6 " Opalescent, "	6.00
6 " Ruby, "	12.00

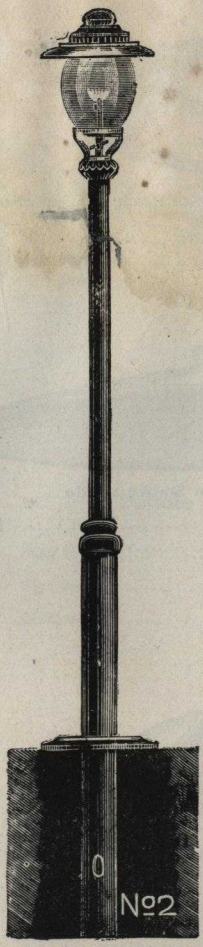


No. 0111. Outdoor Canopy
Tin, per dozen..... $4.50

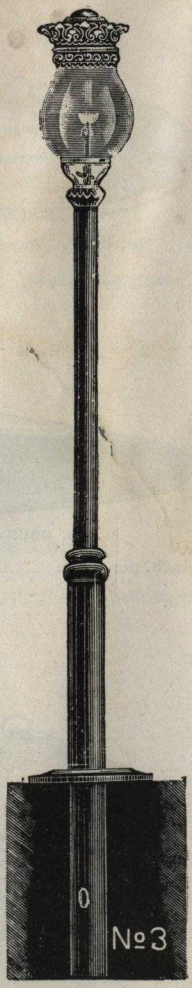
Order by catalogue numbers



No. 0123
Style 1
Lamp and Post..$22.00
Post only..... 13.00
Lamp only..... 9.00



No. 0124
Style 2
Lamp and Post..$20.50
Post only..... 13.00
Lamp only..... 7.50



No. 0125
Style 3
Lamp and Post..$25.00
Post only..... 13.00
Lamp only..... 12.00

The posts are made of heavy pipe. Top section 2½ inches by 3 feet 9 inches; lower section, 3½ inches by 5 feet 9 inches. Flanges are adjustable. The popularity of these lamps and posts is shown by the increased sales. They meet a long felt want.

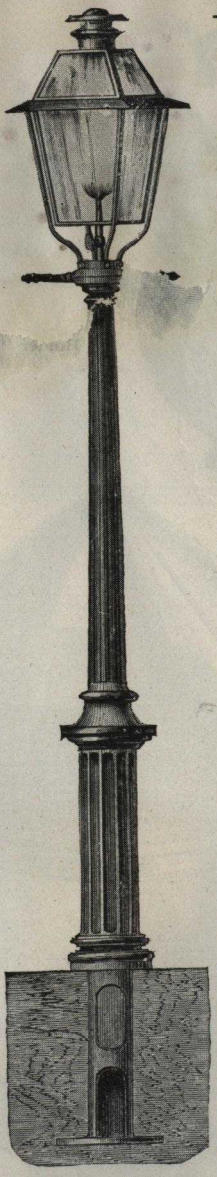
Order by catalogue numbers

No. 0118

Boulevard Lamp and Post .....each, $72.50

Height of Post only 9 feet; Base 14 inches

Post only..each, $52.50
Lamp only " 20.00



No. 0119

Street Lamp and Post, each, $42.75

Post only .....each, $31.50
Lamp only ..... " 7.50
Frame only .....each, $2.25
Cock and Tube..... " 1.50

No. 0120

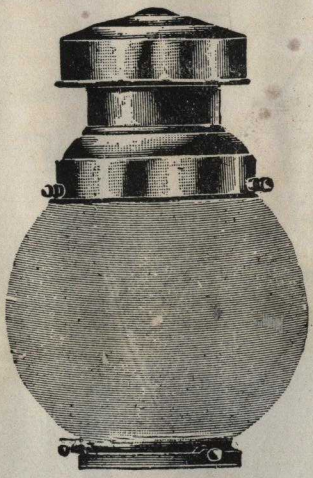
Eureka Lamp Post

Post 8 feet high, no Lamp, $45.00

Post 6 feet high, no Lamp, $33.00

Lamp only.....$25.00

Order by catalogue numbers



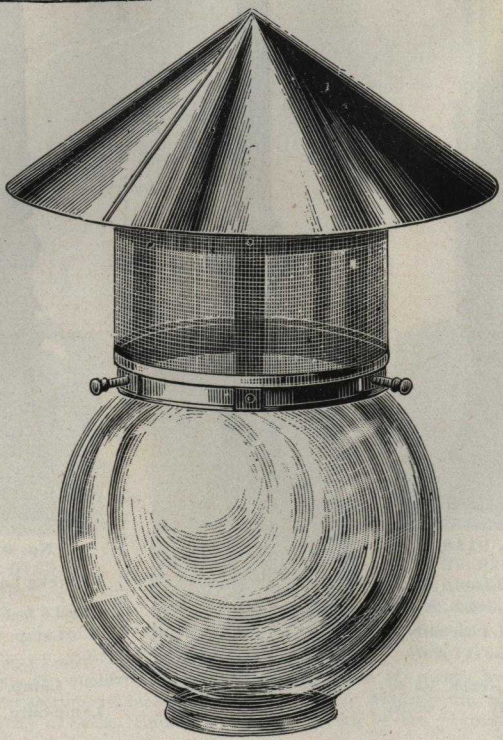
No. 0110

Outside Globe, Canopy and Cast Holder

8-in., each	$4.00
10-in., "	5.25
12-in., "	6.00

No. 0112. Wind Guard, extra

8-in. Globe only	$1.50
10-in. " "	2.25
12-in. " "	3.00
Cast Holder "	.50
Canopy "	2.50

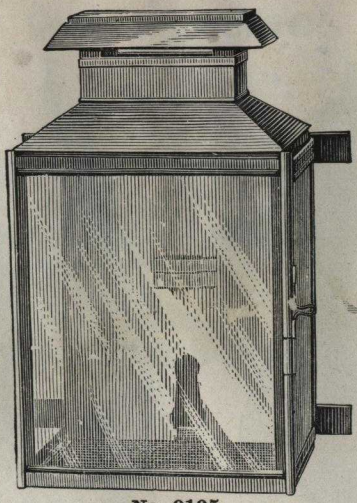


No. 0109. Globe and Canopy

For cotton and flour mill use to guard against fire. Each..... $8.00

Fitted with Cast Holder and Wind Guard

Order by catalogue numbers

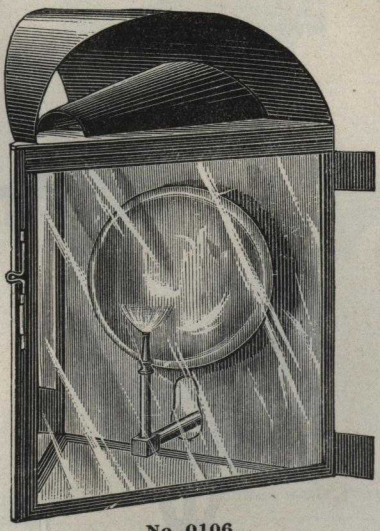


No. 0105

Side Lantern

16	inches high,	7x 9	inches wide		$ 5.00
"	"	10x12	"	"	7.50
24	" "	12x18	"	"	12.00

Reflector not included



No. 0106

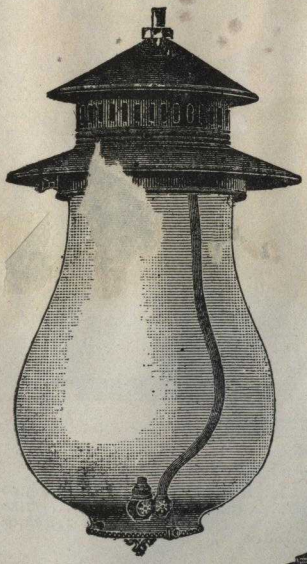
Triangle Lantern

16	inches high,	10	inches wide		$4.50
18	" "	12	"	"	5.50
19	" "	13	"	"	6.50

Burners and Reflectors not included

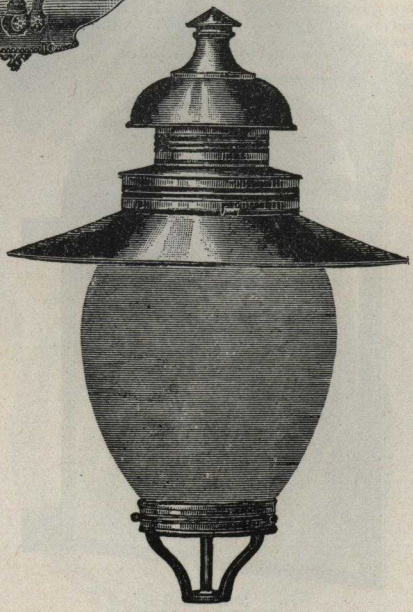
Order by catalogue numbers

Outdoor Lights



No. 0101

20 inches high.....each, $11.00



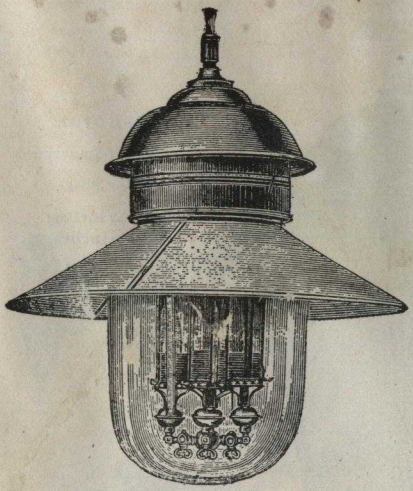
No. 0100

Height 24 inches

For post.....each, $12.00 To suspend.....each, $13.75

Order by catalogue numbers

Outdoor Arc Lights

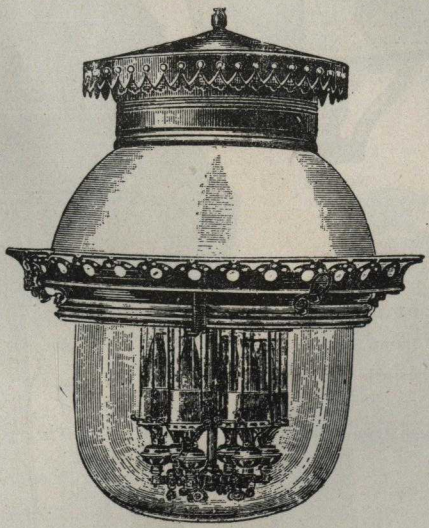


No. 0104

Outdoor Reflector Lamp

24 inch high [illegible] ners,	$18 75
24 " "	19.25
24 " " "	20.00

Burners not included



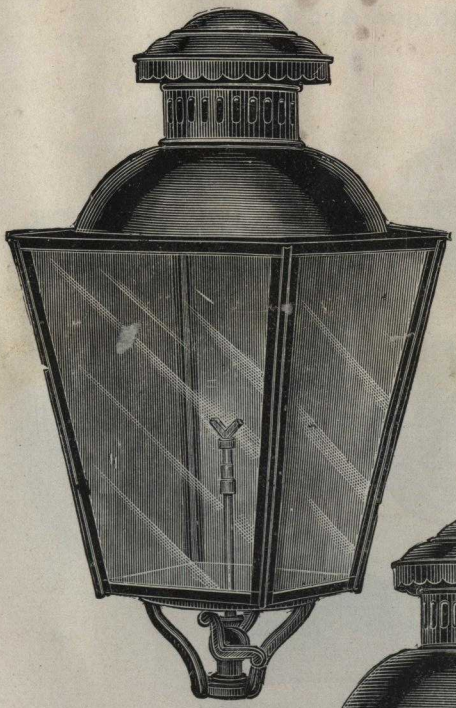
No. 0103

Arc Light for in or outdoor use. Top Dome is white, to reflect light down

25 inch high, 2 Burners	$29.75
25 " " 3 "	31.00
25 " " 4 "	32.00
26 " " 6 "	35.75

Burners not included

Order by catalogue numbers



No. 0107

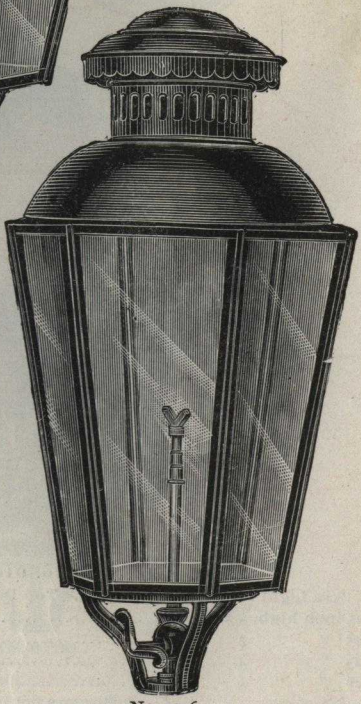
No. 0107

Outside Lantern

For Post

Length, 20 inches; Width, 9 inches, each.....$8.00

Includes ⅜ inch Lamp Post Cock



No. 0116

No. 0116

Post Lamp

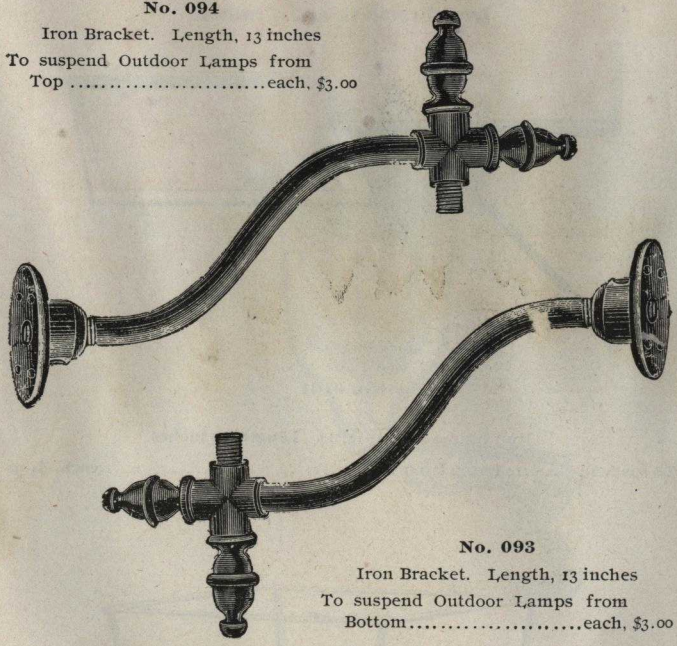
Length, 20 inches; width, 9 inches.....each, $10.00

Includes ⅜ inch Lamp Post Cock

Order by catalogue numbers

No. 094

Iron Bracket. Length, 13 inches
To suspend Outdoor Lamps from Top .....each, $3.00



No. 093

Iron Bracket. Length, 13 inches
To suspend Outdoor Lamps from Bottom.....each, $3.00

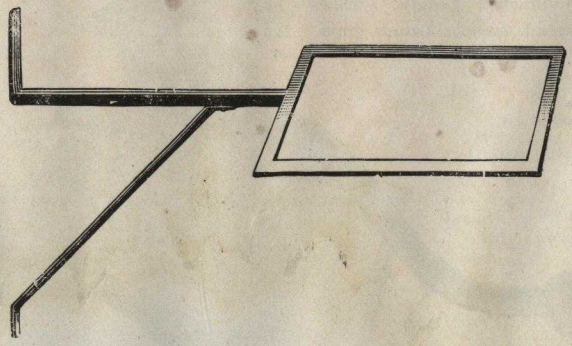
No. 0114

Standard Street Lamp

Height, 29 inches; width, 16 inches
Glass slides in
Used with Frame No. 0122 for post, and with Frame No. 0121 to hang
Lamp only.....each, $8.00

Order by catalogue numbers

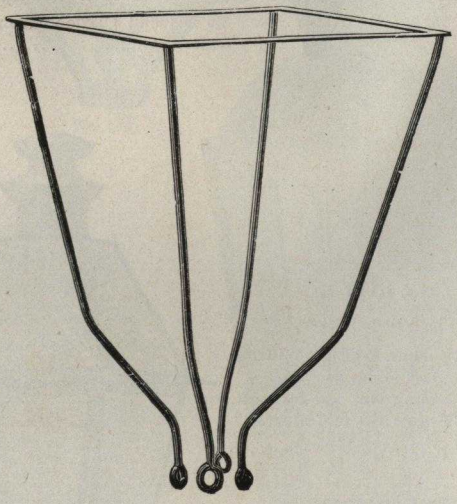
Iron Brackets and Frames



No. 0121

Iron Frame for Lanterns. Length, 30 inches

To suspend No. 0114 Lamp from wall.....each, $4.50

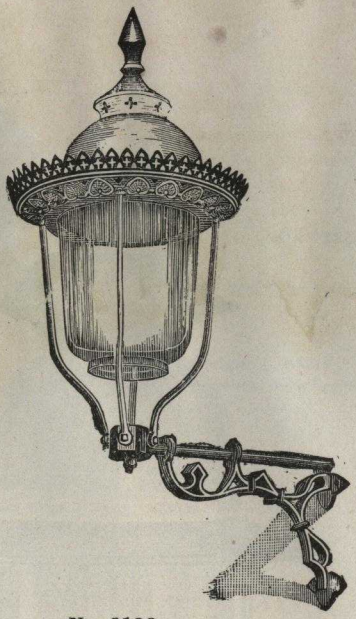


No. 0122

Street Lamp Frame. For Post

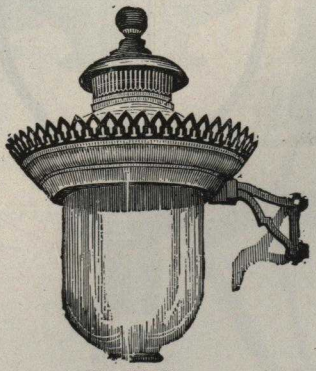
For No. 0114.....each, $2.25

Order by catalogue numbers



No. 0126

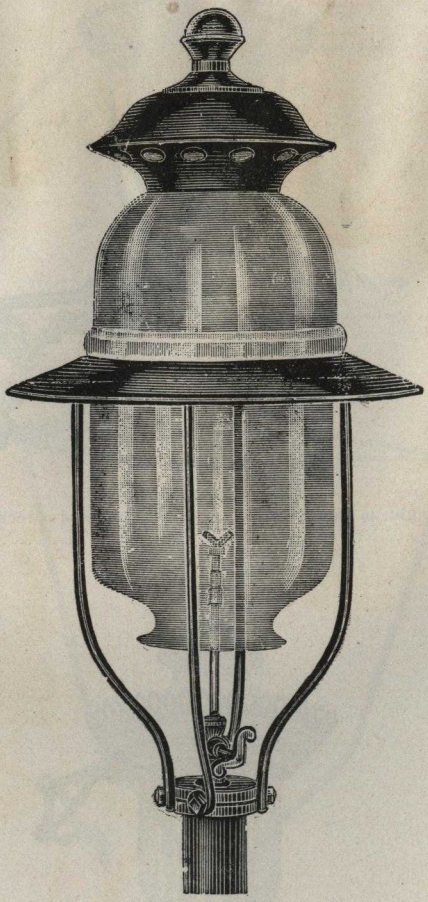
Outdoor Lamp
Height, 40 inches; Width, 20 inches; Projects 24 inches
Porcelain top.....each, $22.00



No. 0127

Outdoor Lamp
Bracket, 6 inches; Width, 18 inches; Height, 25 inches.....each, $12.00
Burners not included

Order by catalogue numbers

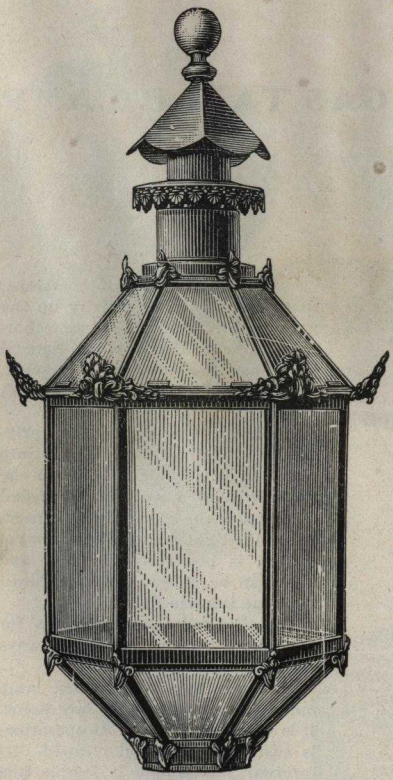


No. 0128

Boulevard Lamp

31½ inch high (Globes 10 inch diameter, 17½ inch high).....each, $12.00

Order by catalogue numbers

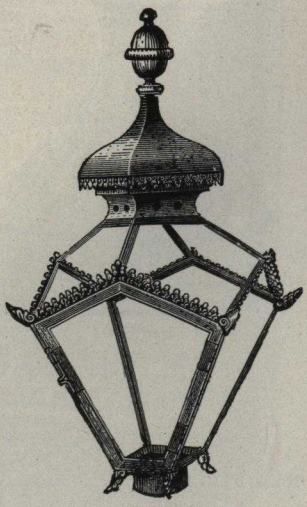


No. 0115

No. 0115

Hexagon Lamp for Post

Height		Width			
36	inches,	16	inches.	each,	$25.00
40	"	20	"	"	35.00
54	"	26	"	"	55.00



No. 0108

No. 0108

Fancy Square Outdoor Lantern For Post

Length		Width			
24	inches,	13½	inches.....	each,	$12.50
27	"	16	"	"	15.00
31	"	19	"	"	22.00

Burners not included

Order by catalogue numbers

ACETYLENE GAS TABLE LAMP

No. 0701
Electrolite Lamp

Since the discovery of Acetylene, there has been great activity on the part of inventors to produce a thoroughly practical house lamp. Several lamps have been put on the market, each claiming to be the only perfect lamp.

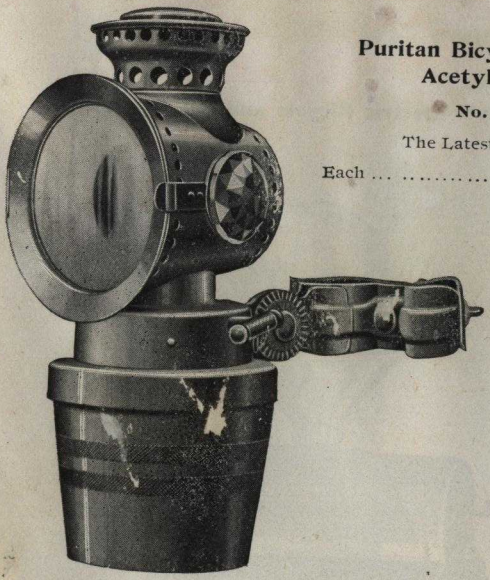
In our lamp we employ the principal of feeding the carbide into water. The carbide is fed into the water in small quantities, as needed to generate the gas as fast as used. When the light is shut off the feed of carbide is positively checked, and there can be no gas generated until the lamp is again lighted.

The Electrolite generates gas for immediate use only, but is always ready for lighting at once.

The shape and finish of the lamp makes it an ornament for any home. It is simplicity itself in its operation, is easily charged and cleaned. Its internal mechanism is simple and cannot get out of order. It is safe; it cannot explode under any circumstances. It is economical; cheap as gas or kerosene.

Nickle Plated..... each, $15.00

No. 0701½. Hanger for above lamp, so as to suspend it from ceiling, each $5.00

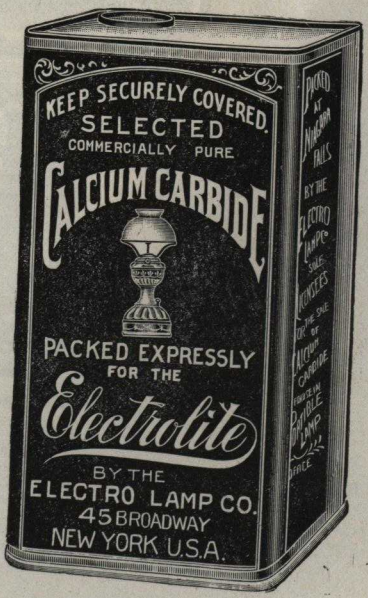


Puritan Bicycle Lamp for Acetylene Gas

No. 0703

The Latest. The Best

Each $4.00



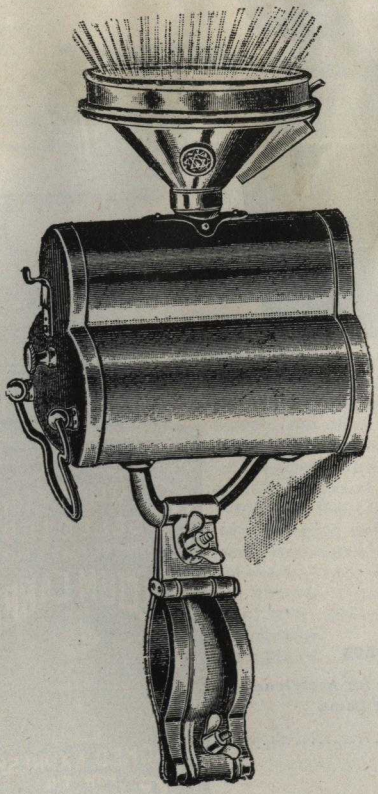
No. 0695

Calcium Carbide for Acetylene Gas Table Lamp

10 Pound Cans..... $1.50

Order by catalogue numbers

"Ever Ready" Electric Bicycle and Carriage Lamp



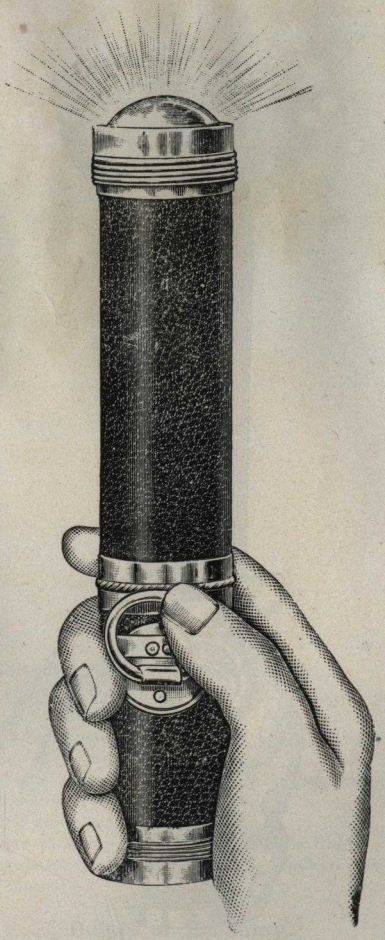
No. 080

Each.....$6.50

Extra Battery.....$0.45

Order by catalogue numbers

"Ever Ready" Electric Flash Light

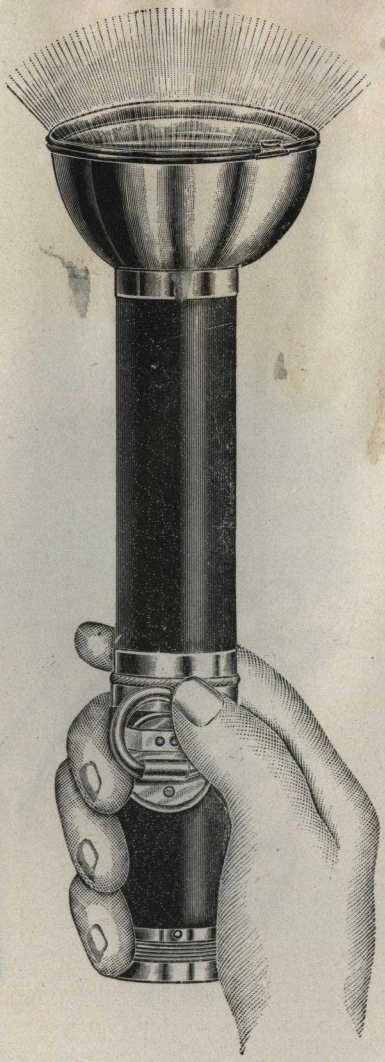


		Each	Extra Battery
No. 081.	Size 1½ x 8½ inches.....	$5.00	$ 0.55
" 082.	" 1½ x 11 "	6.50	0.55
" 083.	" 1½ x 13 "	8.25	1.10

Nos. 081 and 082 are 3½ volt lamps; 083, 5½ volt lamp.

Order by catalogue numbers

"Ever Ready" Electric Flash Light



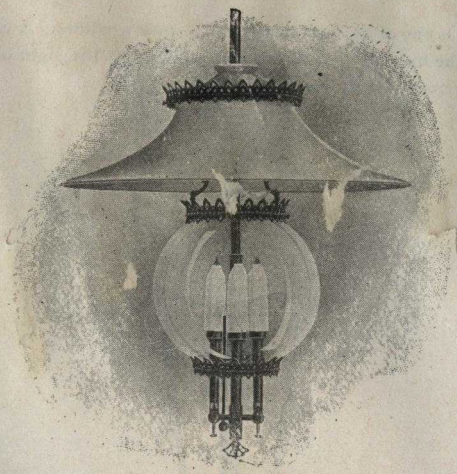
No. 084,	Size 2½x8½ inches	each.	$6.50	Extra Battery,	$0.55
No. 085,	" 2½x11 "	"	8.25	" "	.55
No. 086,	" 2½x13 "	"	9.75	" "	1.10

Nos. 084 and 085 are 3½ Volt Lamps
No. 086, 5½ Volt Lamp

Order by catalogue numbers

Indoor Lamp

"Four Mantles"



No. 0385

Each.....$13.00

Equipped with—

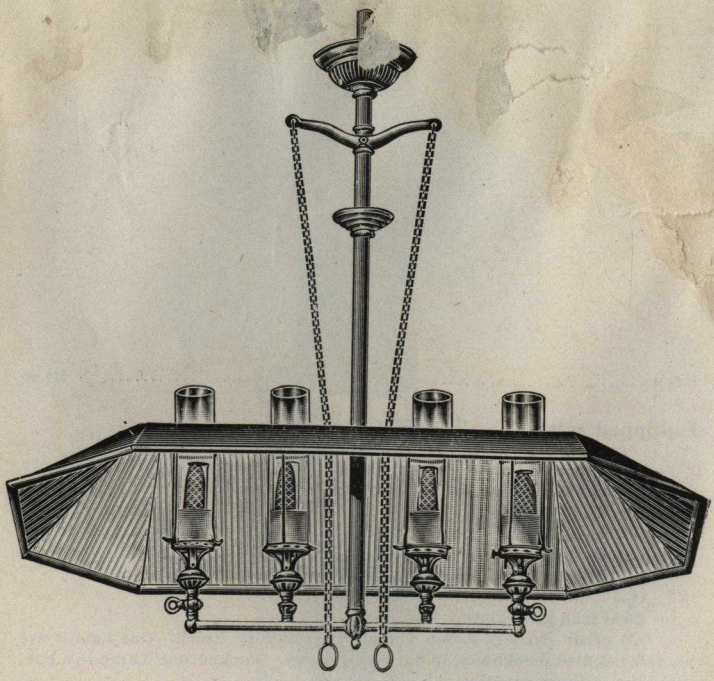
Our improved Patent Burner with Pilot Jet Lighter.
Detachable, sliding, adjustable globe holder; which suspends globe from top.
Our special long bunsens with needle point adjustment and center supports.
Nickel plated steel gas supply pipe and sleeve protecting same.
Opal lead glass shade, 18 inches in diameter.
Clear lead glass globe, 9 x 9.
All other parts of Lamp are of brass, oxydize finish. Our Lamps are made by skilled mechanics, in our own factory. Packed one Lamp in a box, complete without mantles.

Points of Economy.

Decreased gas consumption, decreased breakage and cost of maintenance, with **increased** candle power.
Pilot Flame is extinguished when mantles are lighted.
To regulate Pilot Flame adjust screw at bottom of Lamp.
All complicated mechanism has been eliminated in the construction of this Lamp.
This Lamp casts no shadows, and can be adjusted when burning.

Window Reflector

This style is one of the best for lighting show windows. It can be hung high toward the front of the window and will reflect the light on the goods and not interfere with the display.



No. 0397

Length, 36 in.; Reflector, 15 x 34 in.

Oblong, Corrugated Silvered Glass

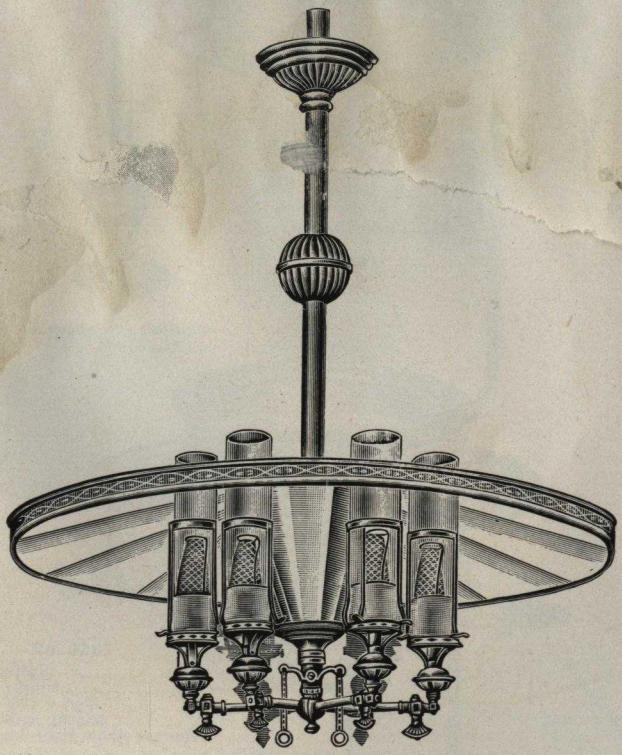
4 Lights..... $28.00

Burners not included

Order by catalogue numbers

Reflector

Suitable for Lighting Churches, Theatres, Halls and Stores



No. 0396

Diameter, 25 in.; Length, 36 in.

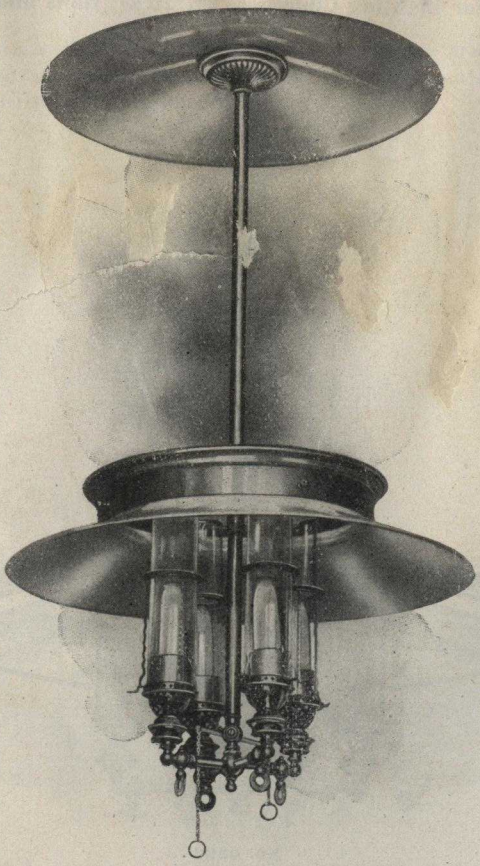
Corrugated Silvered Glass

6 Lights..... $30.00

Burners not included

Order by catalogue numbers

Reflector for Store, Church and Hall



No. 0391

Manhattan Reflector with By-Pass Cock

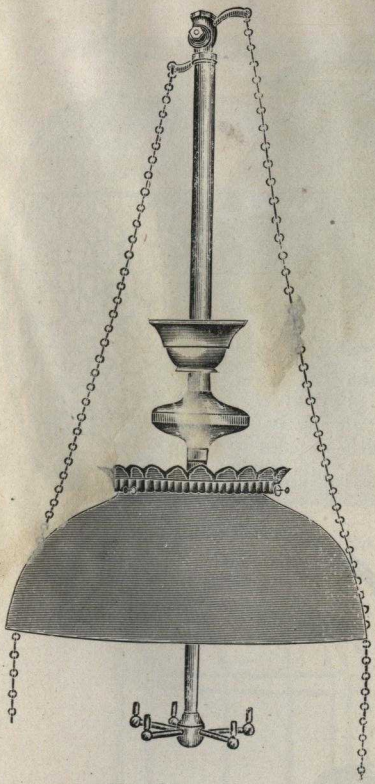
2 Light	$8.00
3 Light	8.50
4 Light	9.00

22-inch Opal Reflector, 15-inch Opal Deflector included

Burners not included

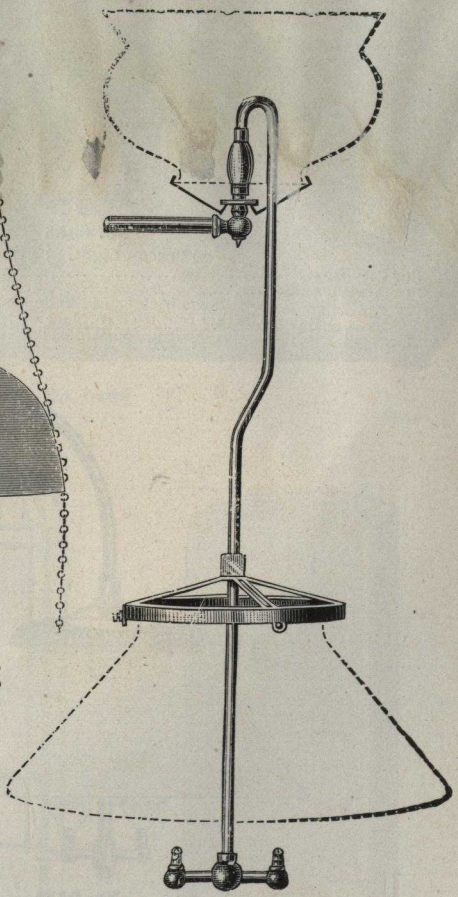
Order by catalogue numbers

BEACON LIGHTS



No. 0381

City Gas, 2-light..... $5.50
City Gas, 4-light..... 6.00
Acetylene Gas, 2-light..... 6.00
Acetylene Gas, 4-light..... 7.00
14-inch opal dome shade included.

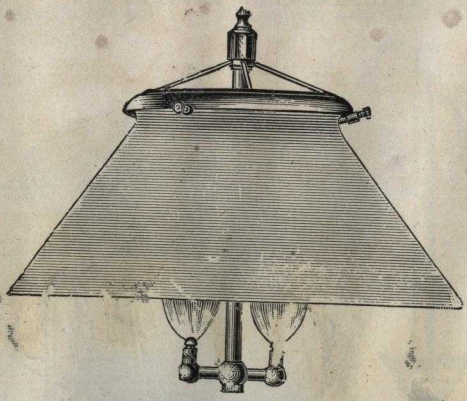


No. 0382

24-inch..... $1.50 36-inch..... $2.00
30-inch..... 1.75 42-inch..... 2.25
5x10-inch opal cone shade included.
Fits over burner on chandelier, dropping light down over table or desk. Superior to all others. Can be removed easily when not in use.

Order by catalogue numbers

BEACON LIGHTS



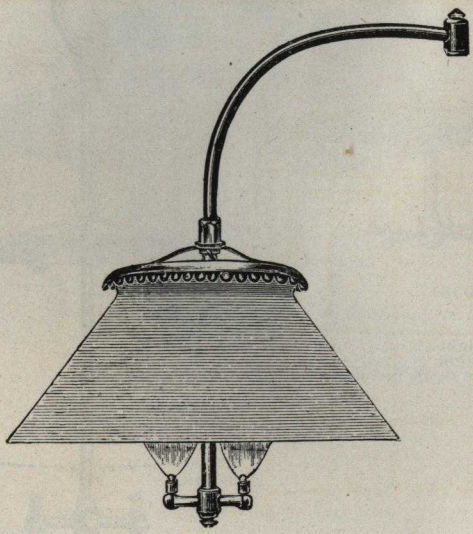
No. 0383

Beacon Light. Upright

For City Gas..... uplete, $1.
For Acetylene Gas..... " 1

5x10 inch Opal Shade included

Fits any fixture and used in place of the common b
giving four times the light



No. 0384

Beacon Light, with Arm

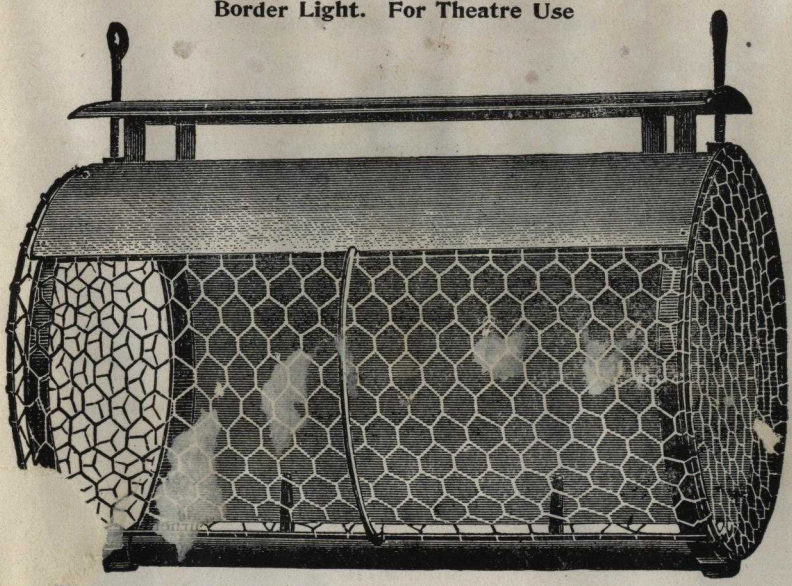
For City Gas.....complete, $1.25
For Acetylene Gas..... " 1.50

5x10 inch Opal Shade included

Fits on any gas fixture to throw light down. As shown in cut, it drops light down 12 inches. By reversing arm the light is then even with fixture. Excellent light at small cost.

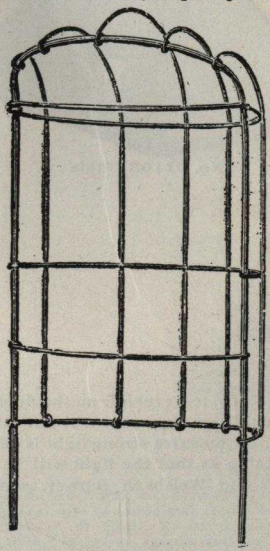
Order by catalogue numbers

Border Light. For Theatre Use



No. 0489

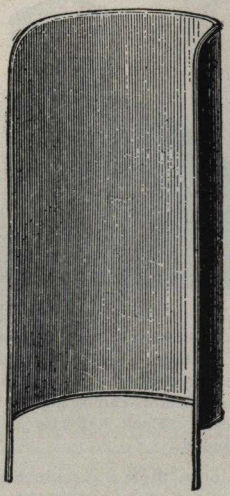
Per running foot, ready to put up..... .....$3.50



Wire Guard for Foot Light Screens

No. 0488

5½x11 inch.....dozen, $9.00



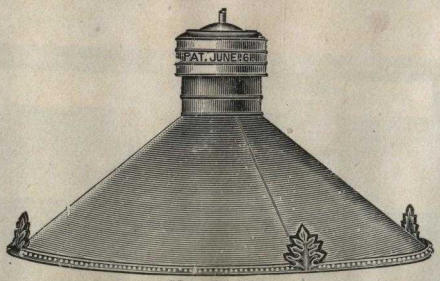
Foot Light Screen

No. 0487

5x11 inch.....dozen, $6.00

Order by catalogue numbers

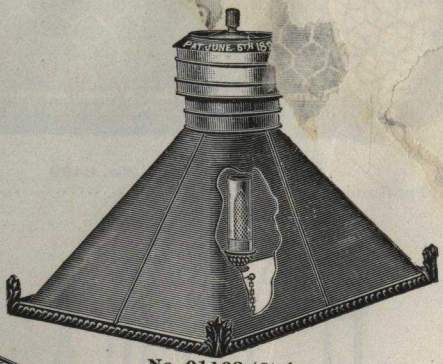
Card and Billiard Table Reflectors



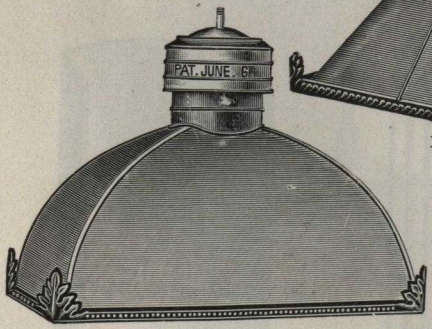
No. 01106

Card Table or Chandelier Reflector will throw a ray of light 30 feet square, as powerful as three ordinary burners.

30 inches in diameter.....each, $15.00



No. 01103 (Style 1)



No. 01104 (Styles 2 and 3)

The Billiard Table Reflectors, when placed 6 feet 1 inch from the floor, will cut the outer edge of a 5x10 table, giving a uniform light that will not shine in the player's eyes nor cast any shadows. If an extra strong light is desired, two Reflectors can be placed over a 5x10 table so that the light will be most intense. Each Reflector is arranged for one Welsbach Burner, which is included.

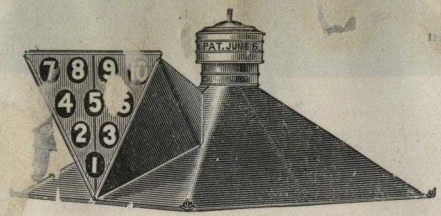
No. 01103, Style 1, 18x24 inches.....each, $15.00
No. 01104, " 2, rounded form, 18x24 inches..... " 18.00
No. 01104, " 3, " " 21x36 " ..... " 20.00

Order by catalogue numbers

Bowling Alley Reflectors

No. 01100 (Style 1)
Front Reflector, 24x48 inches.....each, $16.00

No. 01101
Middle Reflector, 24x48 inches.....each, $16.00



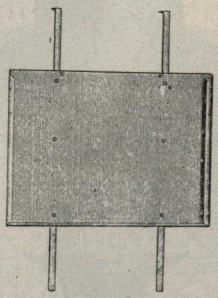
No. 01102 (Style 2)
In Reflector.....each, $18.00

The Bowling Alley Reflectors are sold in sets of six for two alleys, or eight for three alleys, and are placed 5 feet 10 inches from bed of alley. The light cannot be seen by the bowler. Reflectors are 24x48 inches, and will light a space 24 feet wide. The lights cannot blow out. Both sets of six or eight include two Pin Reflectors and one Front Reflector, as the center Pin Reflector in set of eight could not be seen.

Per set of six (6).....$100.00 Per set of eight (8).....$130.00

Each Reflector is arranged for one Welsbach burner, which is included.

Score Sheet Holder

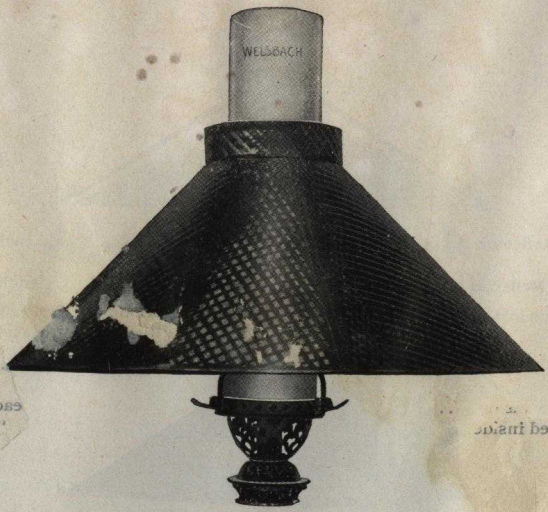


No. 01107

These Score Sheet Holders are made for keeping the sheets straight and uniform, and are so arranged that they can be attached to blackboards and readily taken off again so blackboards can be used for club plays. It is manufactured of heavy galvanized and band iron, and is indestructible. When ordering, give height and width of blackboard.

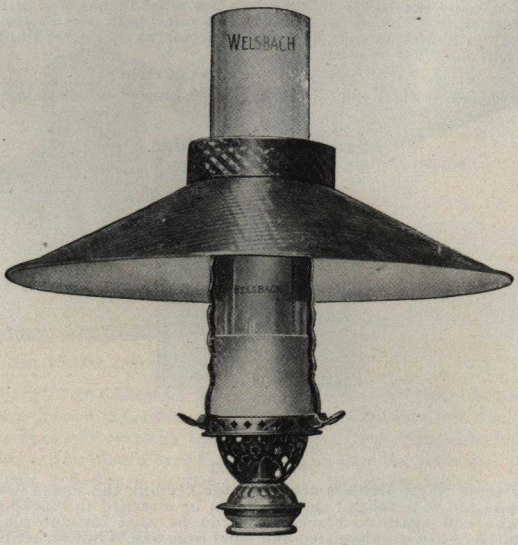
28x40 inches.....each, $8.00

Corrugated Tin Reflectors for Store Windows, Etc.



No. 0512

Per dozen.....$8.00



No. 0513

Per dozen.....$6.50

Order by catalogue numbers

REFLECTORS

Aluminum Reflector

No. 0500

Light and Durable

Frosted inside.....

Polished.....

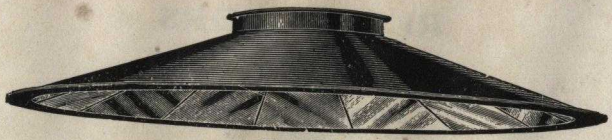
Tin Shade

No. 0491. 10-inch, per dozen.....$4.00
No. 0492. 12-inch, per dozen..... 5.00
No. 0525. Holders, extra, per dozen..... 1.50

Very effective for workrooms, etc.

Order by catalogue numbers

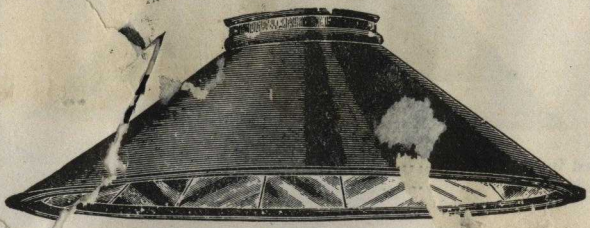
Williamson Reflectors



No. 0476

Silver Glass Reflectors (Flat)

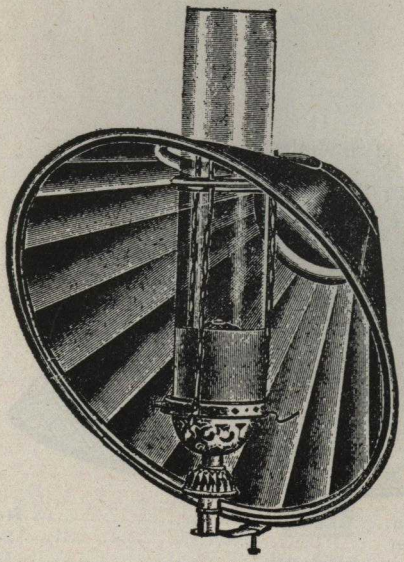
10-inch.....each, $1.00
12-inch..... " 1.25



No. 0475

Silver Glass Reflectors (Deep)

10-inch.....each, $1 25
12-inch..... " 1.5[illegible]



No. 0479

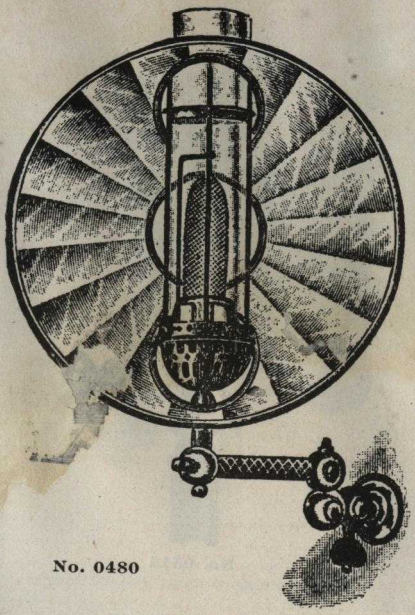
"The Champion"

No. 0479. Mirror Glass Side Reflector, adjustable to any angle where great amount of light is necessary. Can be attached to any incandescent gas light burner. Excellent for bowling alleys.

Each $2.50

Order by catalogue numbers

Side Reflectors

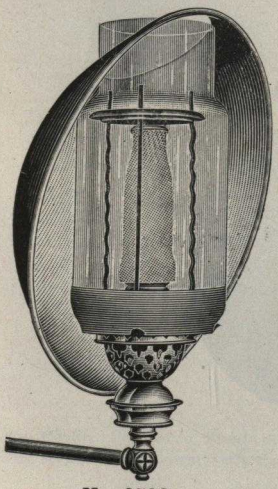


No. 0480

Headlight Reflector

Throws a very powerful light in one direction. Very effective in lighting pictures on the wall needing a strong light. Also in long corridors and all similar places.

Mirror Glass.....each, $2.50



No. 0502

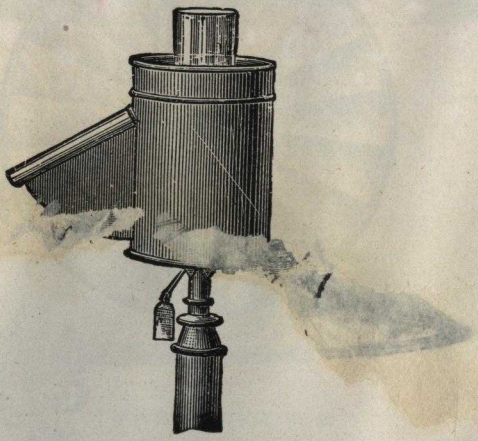
9-inch Reflector—Hangs on chimney

Frosted.....per dozen, $13.50
Polished..... " " 16.20

Easily moved around on chimney and throws strong light down and ahead. Made of aluminum and very light.

Order by catalogue numbers

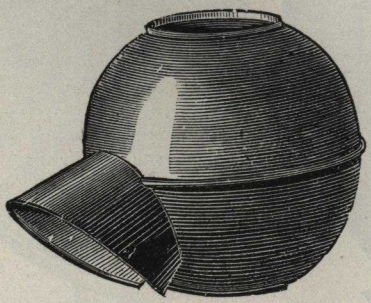
Pulpit Shade



No. 0514

French Bronze.....each, $2.00

Pulpit Hood

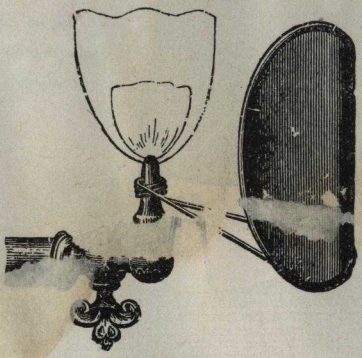


No. 0515

French Bronze.....each, $3.00

Order by catalogue numbers

Moon Shades

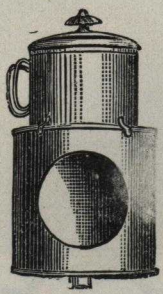


No. 0495

7-inch, per dozen $1.25
8-inch, per dozen 1.50
8-inch, per dozen 2.50

Handy for sick room to shield the eyes

Nursery Shade



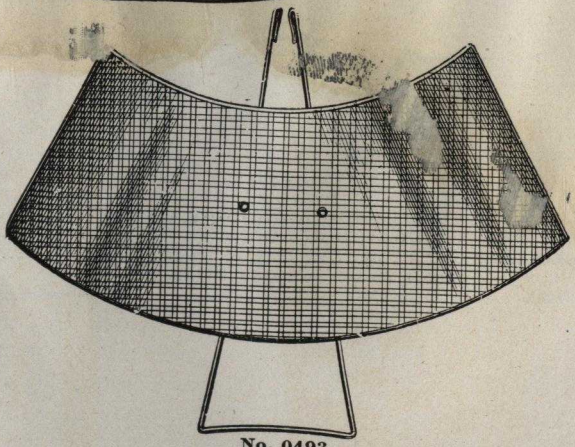
No. 0496. Per dozen, Shade only $4.00
No. 0497. Per dozen, with Cup 9.00

Order by catalogue numbers

Tin Side Shades

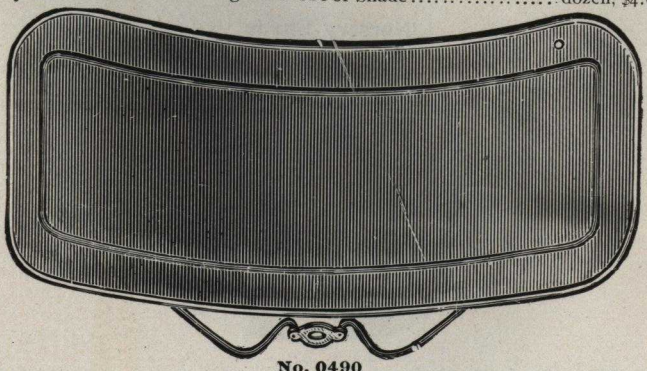
No. 0494

To hang on Globe or Shade to shield the eyes on one side.....dozen, $4.00



No. 0493

Adjustable and made to hang on Globe or Shade.....dozen, $4.00



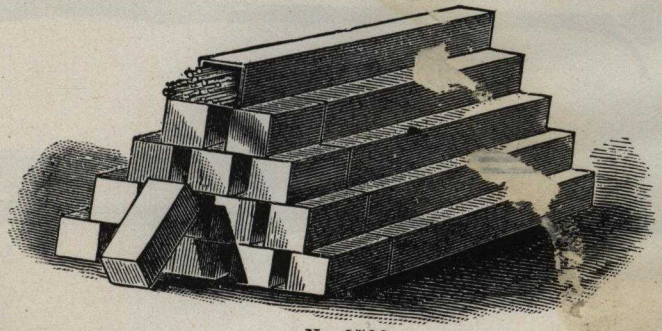
No. 0490

Fits under common burner and shields the eyes on one side.....dozen, $9.00

Order by catalogue numbers

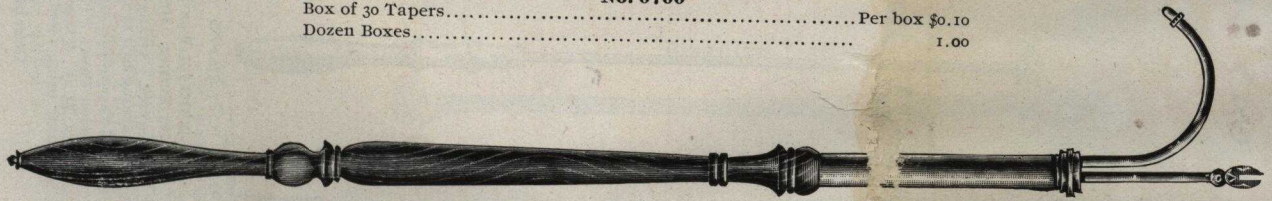
Order by catalogue numbers

Wax Tapers for [illegible]ting Gas



No. 0700

Box of 30 Tapers.....Per box $0.10
Dozen Boxes..... 1.00

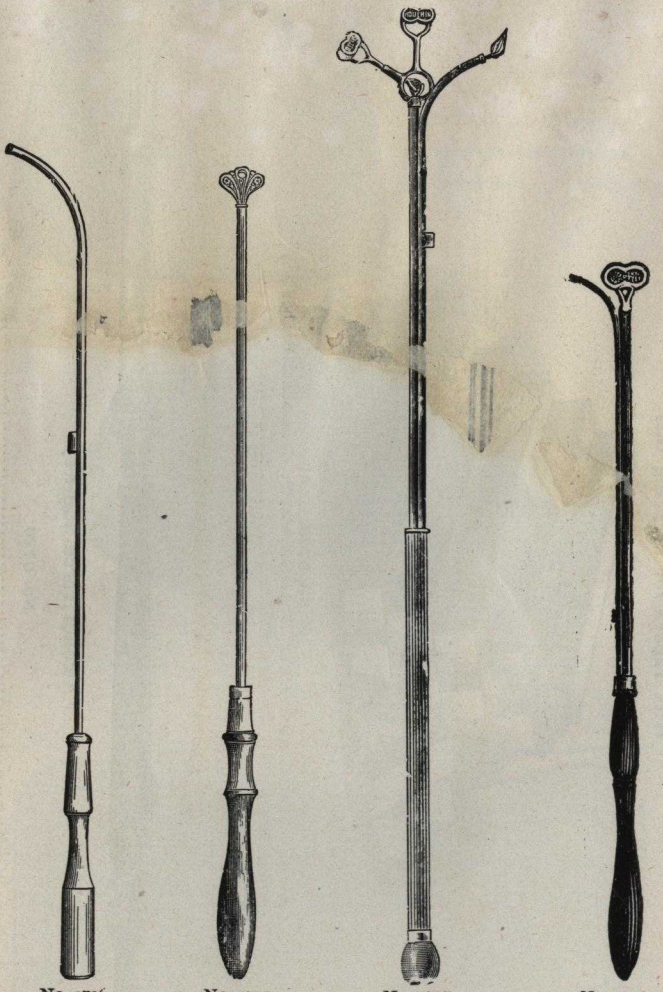


Alcohol Torch and Key

No. 0720

Each.....$3.00

GAS LIGHTERS



No. 0706 No. 0705 No. 0707 No. 0708

No. 0706. Gas Lighter for Wax Taper.....dozen, $3.00

No. 0705. Gas Key Turner. Heavy..... " 7.00

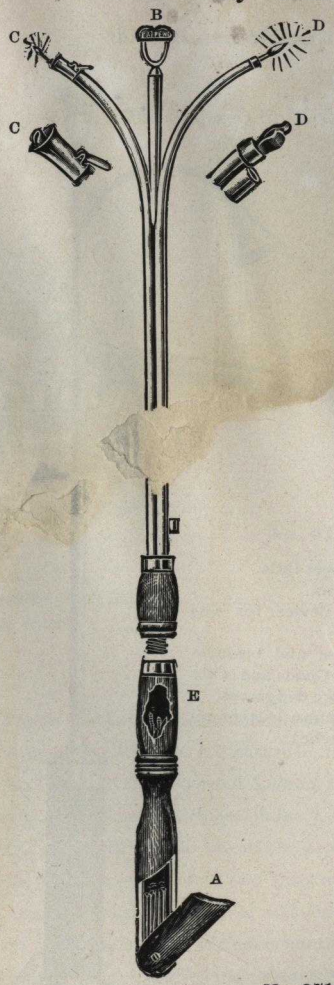
No. 0707. Gas Lighter. Arranged to turn Gas Keys or Electric Socket Keys by turning ball at bottom of Handle.....each, 4.50

No. 0708. Nickel Taper Slide and Key..... 3.00

No. 0709. Extension Taper Slide and Key, each, 2-foot, $1.00; 4-foot, $1.75; 6-foot, $2.50; 8-foot, $3.25. These are fitted with Sampson Joints, and can be made any length by using 2 foot sections

Order by catalogue numbers

The "Handy" Double Gas Lighter



No. 0718

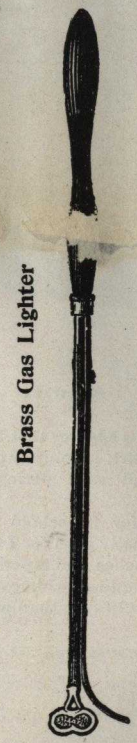
The "Handy" Double Gas Lighter

Open receptacle (A) at lower end by swinging its door to the right; take a match and ignite it on the rough surface of the fork (B). If you intend lighting a few jets only, insert match in clasp (C) by merely pushing it in. When through, open clasp and let the match fall down the tube. In case you have more jets to light, ignite taper (D) with the burning match, open clasp (C) and let the burning match fall in, (E) box holding used matches; if necessary to empty same, unscrew top, and throw the stumps away. Always ready for use. No burnt matches to soil carpet and floors. They are strongly made of brass (not tin) and will not twist or turn when in use. They are the best made.

The "Handy" Double Gas Lighter ..... dozen, $12.00

Were you ever bothered with a cheap lighter?

Order by catalogue numbers



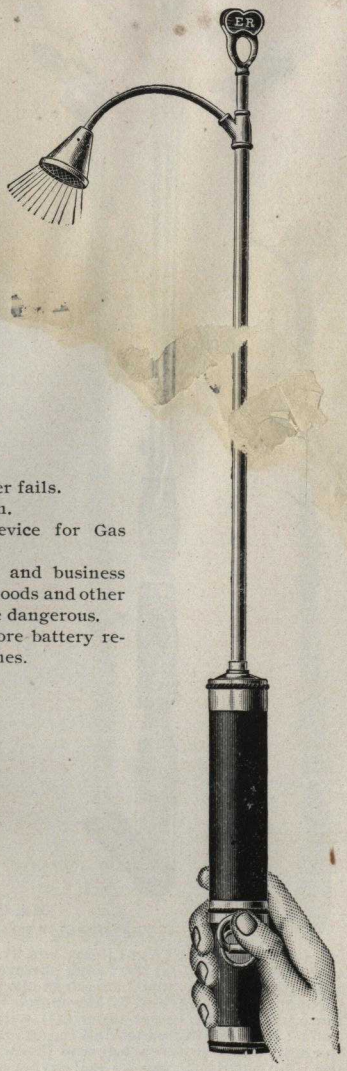
Brass Gas Lighter

No. 0719

Uses Wax Tapers. A good heavy article, strongly made at point where strength should be ..... dozen, $8.00

They will not twist off or out of shape when in use

"Ever Ready" Electric Gas Lighter



No. 0721

An instantaneous Lighter that never fails.

No smoke; no dirt; absolutely clean.

The newest and most perfect device for Gas Lighting.

Indispensable for household use and business purposes. Especially good for Dry Goods and other Stores where matches and tapers are dangerous.

Can be used 4000 to 5000 times before battery requires renewal. Cheaper than matches.

Complete with Battery ..... each, $5.75
Extra Battery ..... " .65

Order by catalogue numbers

"Ever Ready" Electric Gas Lighter

No. 0722

Complete with Battery.....each, $3.00
New Battery..... " .55

Lights about 1500 times before a new Battery is needed.

A Joy in the Kitchen; a Pleasure in the Parlor.

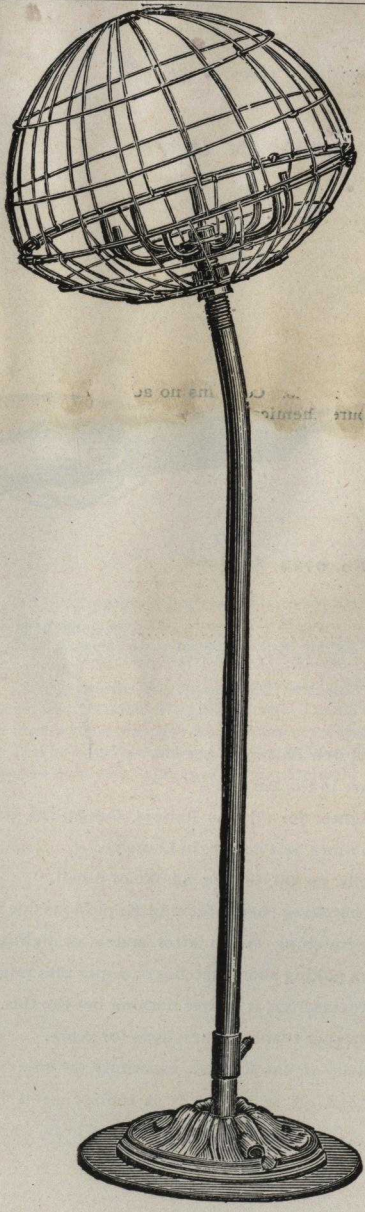
An Electrical instantaneous Lighter for all Gas Ranges, Gas Stoves, Gas Heaters, Gas Burners, in House, in Store, in Factory, in Laundry.

CLEAN.—No Wires. no Chemicals, no Oil, Grease, Smoke or Smell.

NO DANGER.—Prevents those shocking, nerve-racking Explosions due to the Gas being turned on while scratching match after match, or lighting paper. No more burning of fingers poking short matches or paper into range or heater. Children cannot burn themselves; it ignites nothing but the Gas.

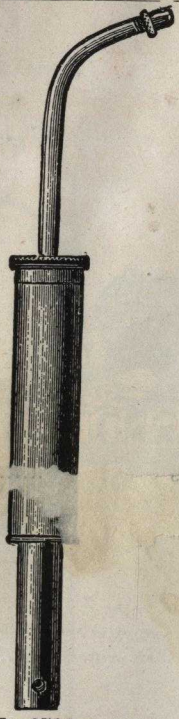
STRONG.—Beautifully made; cheaper than matches; lasts for years.

GOOD.—It is a Comfort, a necessity in the Kitchen, especially for Summer Cooking, when Gas is turned on and off so often. It is indispensable for Work Rooms using Soldering Stoves and Gas Heaters; it is Handy everywhere where Gas is used.



No. 0699

Order by catalogue numbers



No. 0710

Theatre Torch Lighter. For Alcohol

Each $4.50

Will fasten to pole

No. 0699

Bunch Light. For Theatre use

Each $16.00

3, 4, 5 or 6 lights

Allen's Soldering Salts

No. 0421

A perfect soldering flux for all metals. Contains no acid, and is made of pure chemicals.

	Each
½ pound bottle	$0.35
1 " "	.50
5 " "	2.50

Allen's Soldering Stick

No. 0419

Put up in round sticks, 6 inches long. It is applied by rubbing on joint when heated, causing solder to adhere. Always clean and can cause no inconvenience as happens when you spill your acid bottle. Always ready for use.

Each $0.30

Solder

Half and Half

No.		Pound
016.	Triangular solder, small	$0.50
017.	Wire solder, 10 gauge	.50
018.	Bar solder	.50

Subject to fluctuations of market

Soldering Paste

No. 0418

Per tube $0.50

Order by catalogue numbers

No. 08

Liquid Aluminum Bronze

	Each
2 ounce cans	$0.20
4 " "	.35
6 " "	.50

Dry Bronze Powders

Pale gold, 1 pound cans	$2.25
Deep " 1 " "	2.25
Copper 1 " "	2.50
Aluminum 1 " "	2.00

Bronzing Liquid for Above

Banana Liquid

1 gallon	$3.75
½ "	2.00
1 quart	1.25
1 pint	.75

No. 09

Floating Electro Bronze

Finest [illegible] de

	Pound
Pale gold, rich gold, copper, aluminum	$6.00

Bronzing Liquid for Floating Electro Bronze

	Each
1 gallon	$4.50
½ "	2.50
1 quart	1.38
1 pint	.75

All the above in patent cans.

Lacquer for Coloring Electric Lamps

Ruby, Blue, Green, Amber, Pink

1 gallon	$9.00
1 quart	2.75
1 pint	1.50
½ pint	1.13

"Frost" same price.

Can color electric lamps or frost them to imitate ground glass in a few moments time by dipping.

State colors wanted when ordering.

No. 015

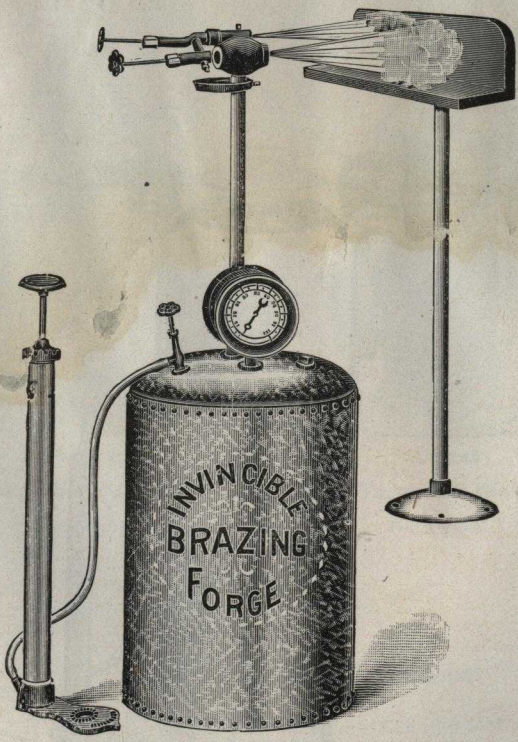
Lacquer for Metal Work

	Quart	Pint	½ Pint	2 Ounce
Rich gilt gold	$1.80	$0.95	$0.50	$0.25
Dead black Bauer Barff	1.80	.95	.50	.25
Blue, orange, green, violet	1.80	.95	.50	.25

Above lacquers are all air-drying.

Specify color and kind wanted.

Brazing Forge for Gasoline

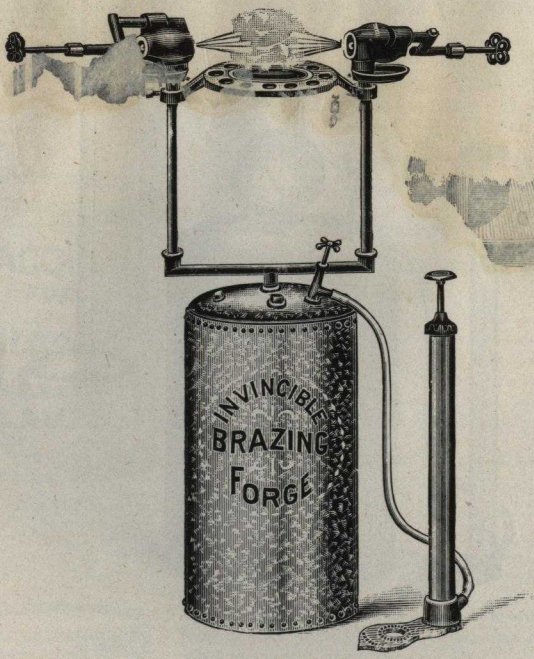


No. 0725

This Brazer is fitted with twin burners, heated by one drip cup, and so arranged that when one is heated the other may be instantly applied if more heat is desired. The burners, jets, valves and connections are of the best and strongest bronze. The needle valves are of our celebrated shouldered pattern, the point keeping the orifice clear while the shut-off strain is borne by the shoulder. The work rest is separate from the brazer, so that the flame can be used at any angle, and the reflector is asbestos filled to retain the largest amount of heat possible. Swing cups for spelter and borax are provided and a small cup in bottom of work rest to catch any drops of spelter.

Each.....$42.00 Without gauge.....$36.00

Order by catalogue numbers



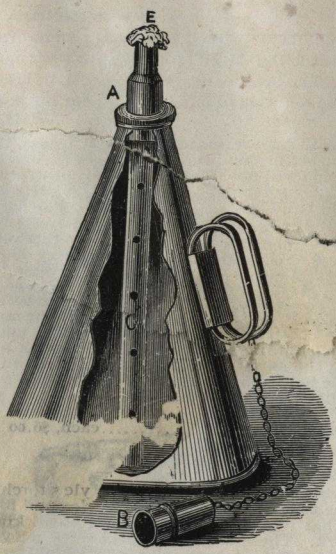
No. 0726

Brazing Forge for Gasoline

This is the smaller size and intended for repair shops and those not having steady use for a Brazer. The tank is of galvanized steel, holds 5 gallons, and is tested to 250 lbs. pressure. The burners and connections will stand any pressure that can be pumped. The pump, though shorter, is of the same quality as those used on our larger brazers.

Without gauge.....$30.00 With gauge.....$36.00

Order by catalogue numbers

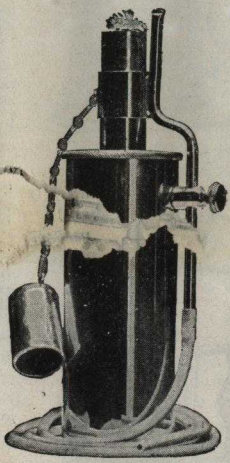


No. 0740

Gas Fitters' Torch

For Alcohol

Tin, each.....$1.50

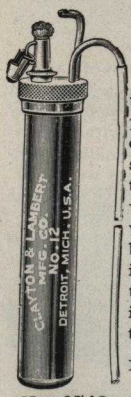


No. 0741

Victor Torch and Blow Pipe

For Alcohol

Each.....$3.00



No. 0742

Torch for Gasoline or Alcohol

Style 12 is a thing of beauty, and will be a joy forever to the user. Burns either gasoline or alcohol. It is made on new principles by which the air blast is passed through a chamber charged with gasoline or alcohol gas, which makes a much stronger fire than can be had in any other way. When blow tube is not used the torch makes a fine candle, which the user will find valuable when working in dark places. A hook is provided so that it may be hung up; is well made, all parts being brass, nickel plated, and finely finished all over. Size being ⅞ inches diameter and 6 inches high, just fits the vest pocket. As this torch does first-class work, using gasoline for fuel, which is much cheaper than alcohol, it will save its cost in a short time in cost of fuel alone. We warrant it to please you.

Each.....$1.50

Order by catalogue numbers

No. 0733

Torch

Style 1 is a favorite with electricians, plumbers, painters and repair men. It is fitted with the latest improved burner and swivel. The tank is made of heavy spun brass, free from seams, and is fitted with our brass air pump.

It will remove more paint and leaves the wood in better condition than any other torch made. You will note that the torch is constructed so that the user holds it in his left hand, leaving the right hand free to use the knife. The flame being at the side of the tank, and free from smoke, the operator is enabled to see the work and follow with the knife, thus doing much quicker and neater work. With other makes the user can not see so well what he is doing, and as he has to move the torch out of the way before he can see the work with the knife, he must necessarily heat the surface hotter, which many times results in scorching the woodwork and leaving the surface rough. In hard or impossible to use an oil finish, the Style 1 all these difficulties are removed.

No. 0733..... $6.00

No. 0734

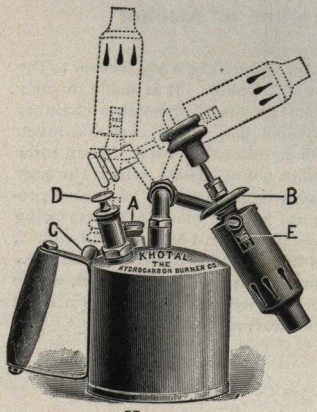
Twin Torch

Style 5. We have added the Style 5 torch to our line to enable us to supply the demand for a torch that was suitable and would do all kinds of work. There are many mechanics who do not have sufficient work in any particular line to keep them busy at that particular work. Many electricians do both inside and outside work, and want a torch that will do both nicely, and save the expense and trouble of having two torches. The same may be said of other trades using torches.

No. 0734..... .....each, $6.00

"Khotal"

Kerosene (Petroleum) Oil-Burning Adjustable Torch



No. 0739

It is adjustable. By means of a swinging joint carefully constructed to avoid the possibility of leakage, the flame may be turned in any direction without moving the tank, making it equally adaptable for low down or upright work.

By means of a needle valve the flame may be governed to any desired size.

It cannot be blown out. The flame is so perfectly protected that it will be maintained in open-air work.

No special needle is required for cleaning the nipple. If any article should lodge in the nipple hole, a turn of the needle valve will clear it.

1 pint size .....each, $7.00

Order by catalogue numbers

Gasolene Torches

No. 0735

Style 19. This torch never fails to please the repair man. The tank is drawn out of heavy brass, free from seams, thoroughly reinforced, and holds one pint. Has improved brass air pump which forms part of the handle. The burner, like all our burners, is a perfect generator, and produces a clear, blue flame, which is easily controlled by the needle point. The burner tube is fitted with hook and rest for holding soldering coppers. Any work any torch will do may be done with this, and in addition soldering coppers may be heated—a point appreciated by repair men. Style 19 is strong and well made, but still is light and can be carried in the repair man's bag. It is always ready for use. We want you to please you

No. 0735.....each, $4.50

No. 0736

Style 16 is one of the most popular quart size torches we make. The tank is drawn in one piece out of heavy brass, and it has brass air pump in handle. The burner is round and has wood handle. This burner has a powerful generator, which produces a strong, clear, blue flame, using very little gasolene. In fact it will soon save the user its cost in the saving of gasolene alone. It is well made and nicely finished. It is light, well balanced, easily handled, and will please the user.

No. 0736.....each, $4.50

No. 0738

Style 18. We are offering you a pint size torch that is up to the minute. The tank is drawn out of heavy brass, free from seams, and all fittings are heavy. Reinforcements are used to make the tank extra strong. A brass air pump of the latest design forms part of the handle.

No. 0737.....each, $4.00

Style 17. We offer you a quart size torch having every improvement that improves. The tank is drawn out of heavy brass, free from seams, and all fittings are heavy. A hook and a support are provided on the burner tube so that soldering coppers may be heated when desired. With it the user can do any work any other torch will do, and in addition can heat soldering irons.

No. 0738.....each, $5.00

Gasoline Torch

Handy to use on a new building when at work in a dark base ment.

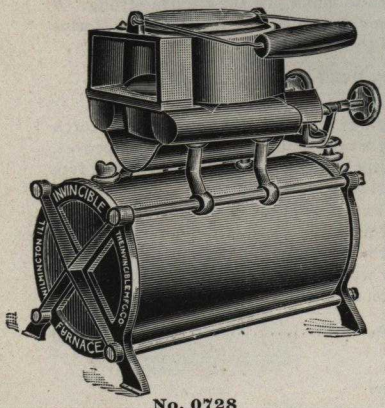
No. 0375

For lighting street stands, freight sheds and camps. Provided with check or shut-off valve and one-gallon tank

1 Burner.....each, $3.00 2 Burner.....each, $6.00

Don't fail to have sample

Furnace for Gasoline

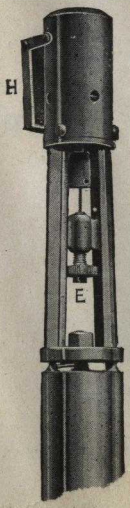


No. 0728

This furnace has a cylindrical brass tank, rigidly held by skeleton face plates and steel rods, so the pressure does not come on the heads or joints; brass pump, solidly connected and capable of putting on any pressure desired; shouldered needles, keeping the jet orifices clean and saving wear; generator, jets and all connections made of our special bronze; pan to catch solder and dirt, and a steel asbestos-lined shield to keep the heat from the tank. It will stand any wind and any pressure, and will quickly heat the heaviest coppers or melt a pot of metal. For many jobs, but one burner need be used, thus saving half of the fuel, and the second burner may be applied instantly if more heat is desired. The burners are simple and powerful, heating the whole length of the copper except the point. The generator has no intricate passages and will never clog. The pump and valves are located at the back, away from any chance of damage. Its many advantages make it worthy of its name. For plumbers, tinners and electricians.

Each $12.00

Order by catalogue numbers



Mitchell Soldering Tool

No. 0744 is the most economical ever produced. It dispenses with the furnace or heater, being self heating; it saves the expense of filing, and tinning is less often needed, for the heating of the copper is from the inside; it wants but a short time to become heated for work, and once ready, remains so as long as required, and yet it can be instantly stopped. In average work it will run five consecutive hours without refilling, and actually costs but about one-fifth of one cent per hour to operate. It will pay for itself in a few days' constant use.

Each.....$12.00

No. 0744

Mitchell Torch

No. 0743. Generates and burns a pure hydrocarbon gas, giving perfect combustion, the most intense flame and the quickest heat ever realized from the amount of gasoline consumed.

Requires only one pumping, pressure automatically maintained.

Safest torch in use. Absolutely no smoke, no soot, no odor.

Costs less to operate than any other torch—about five cents for ten hours.

On account of its size and shape the Mitchell Torch can be used where it would be impossible to use any other.

Altogether the cheapest, safest, handiest torch made.

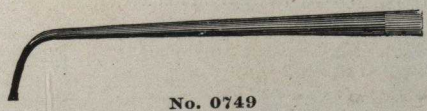
Each.....$10.00

No. 0743

No. 0748

Blow Pipe

Blow pipe, dozen.....$6.00



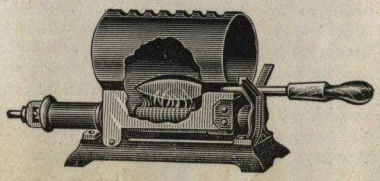
No. 0749

Taper Blow Pipe

Taper blow pipe, dozen.....$9.00

Order by catalogue numbers

GAS SOLDERING-IRON HEATER



No. 0808

Size, 7x14 inches.....each, $3.75

POWER BLOW PIPE

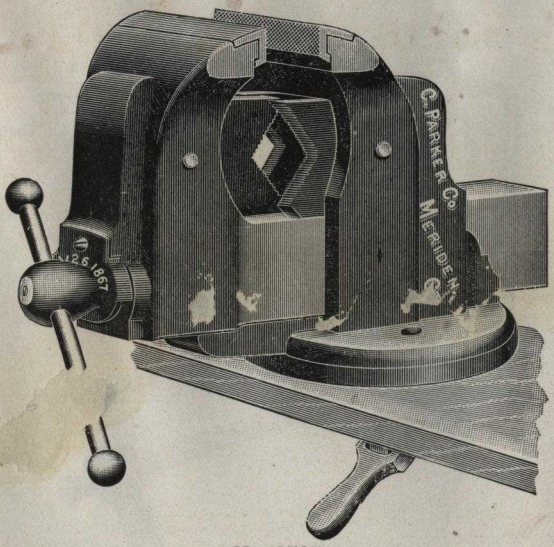
For Hard Soldering

No. 0747

½ inch.....each, $2.25
¾ " ..... " 2.50
1 " ..... " 3.00

Order by catalogue numbers

COMBINATION PIPE VISE



No. 0797

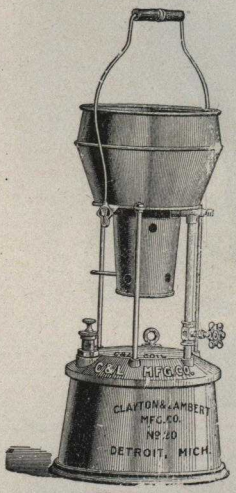
Style 87, for holding pipe 2 inches and under.....each, $25.00

FIRE POTS

These fire pots are well known all over the world.

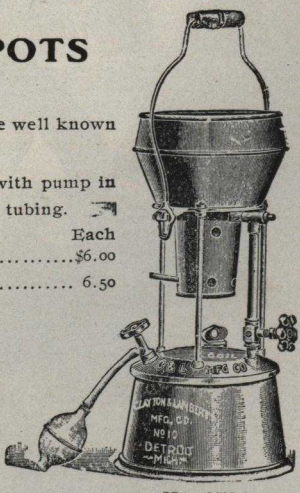
Style 20 is fitted with pump in place of the rubber tubing.

	Each
Style 10.....	$6.00
" 20.....	6.50



No. 0731

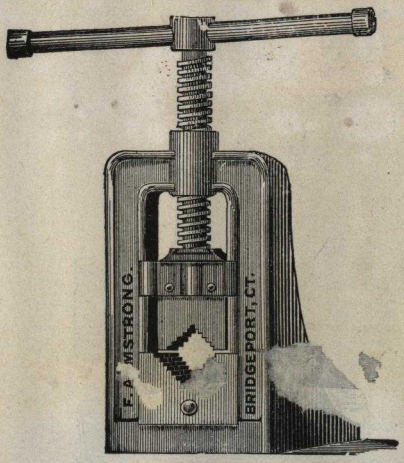
Style 20. Coil Fire Pot



No. 0732

Style 10. Coil Fire Pot

Order by catalogue numbers

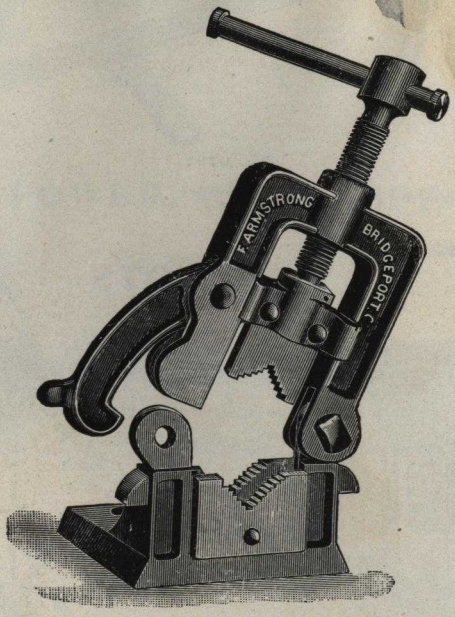


Plain Vise (No. 1)

No. 0795

Take ⅛ inch to 2 inch pipe..... each, $5.50
Extra Jaws.....set, 2.25

Malleable Iron with Steel Jaws



Hinged Vise

No. 0796

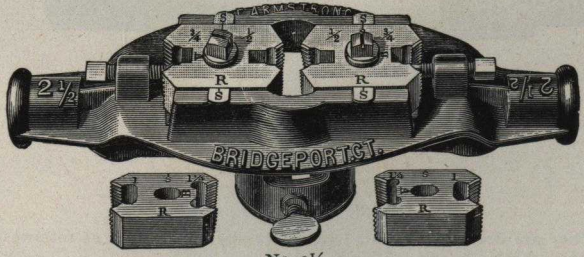
No. 1 size holds from 0 to 2½ inch pipe..... .....each, $ 6.00
" 2 " " " ½ to 4½ " " ..... " 12.00

Pipe can be put in from side, thus requiring less shop space than with plain style. All parts are interchangeable and furnished separately.

Order by catalogue numbers

No. 1

No. 2



No. 2½

No. 0781

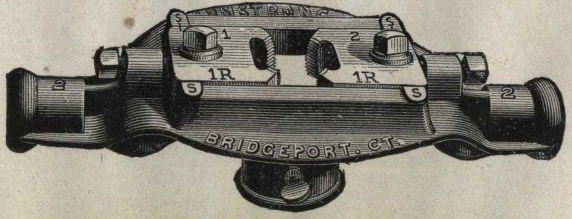
Armstrong's Adjustable Stocks and Dies

	No. 1 ⅛ to ½ in.	No. 2 ¼ to 1 in.	No. 2½ ½ to 1¼ in.	No. 4 1¼ to 2 in
Each	$9.00	$12.00	$12.00	$18.00
Extra Dies	1.88	2.25	4.88	4.50
" Bushings	.30	.38	.60	.75
" Wrenches	.38	.38	.38	....

No. 2½ is with double ended Dies. No. 4 is a sectional Stock

Order by catalogue numbers

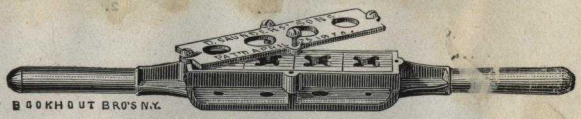
Stocks, Dies, and Nipple Holders



No. 0783

Armstrong's Adjustable Stock and Die for Threading Brass Pipe

No. 2, Threads ⅝, ¾, ⅞, 1, and 1¼ inch ..... each, $15.00

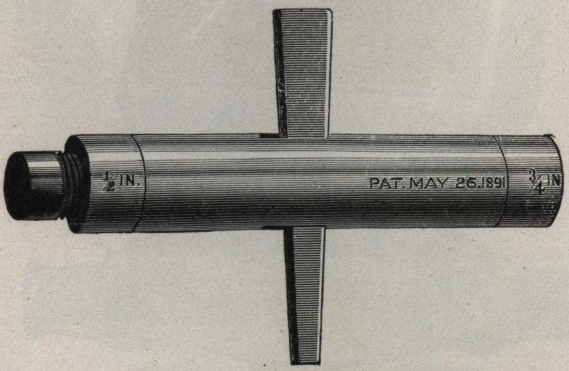


No. 0782

Combination Die Stock with Loose Dies

	No. 0, ⅛ to ½ in.	No. 00, ½ to 1 in.
Each	$12.00	$13.50
Extra Dies ..... each	1.50	2.25

Dies furnished right or left



No. 0799

Nipple Holders for Stocks

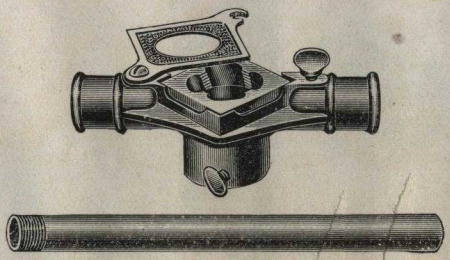
They are double ended, and hold two sizes of nipples as follows:

For No. 2 Stocks, ⅜ and ½ inch ..... each, $4.00
" " 2 " ¾ " 1 " ..... " 4.00
" " 2½ " ½ " ¾ " ..... " 4.00
" " 2½ " 1 " 1¼ " ..... " 4.00

They are arranged so that when the thread is cut the nipple can be removed by starting the wedge backward, which releases nipple.

Order by catalogue number.

Malleable Iron. With Solid Dies



No. 0784

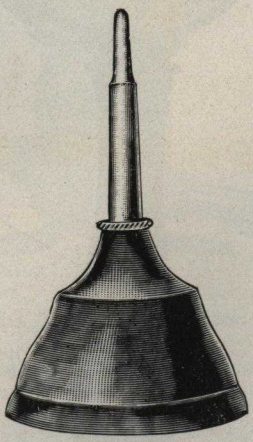
Size	¼ to 1	1¼ to 2
Stock and Dies Complete	each, $8.70	$10.95
Stocks only	" 90	5.50
Extra Dies, Right or Left Hand	" 1.10	2.10
Extra Bushings	" .16	.36

½ ch Dies and Bushings same price as ¼-inch

Extra Parts

	For size ¼ to 1	For size 1¼ to 2
Caps	each, $0.60	$0.90
Thumb Screws for Caps or Bushings	" .30	.30
Machine Screws for Cap	" .15	.15
Handles	" 2.10	3.00
Die Frames	"	.60

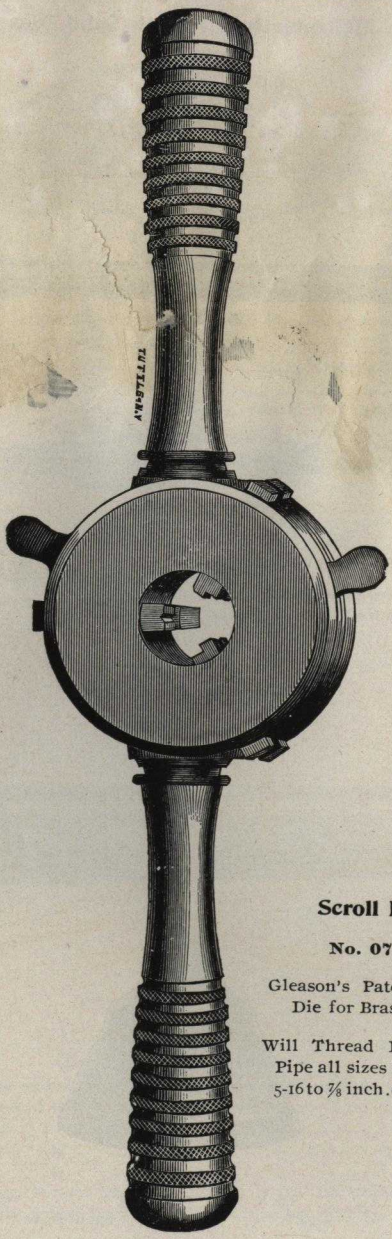
Malleable Iron Oilers



No. 0804

Size 1.....each, $0.40 Size 2.....each, $0.50
Size 3.....each, $0.60

Order by catalogue numbers



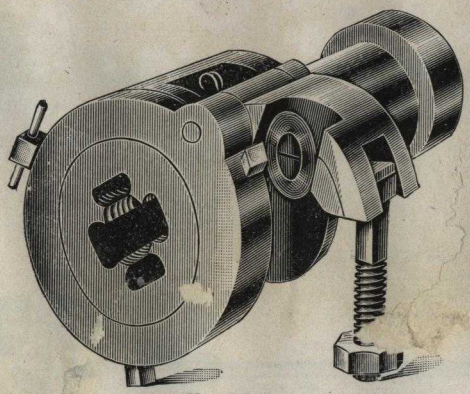
Scroll Die

No. 0780

Gleason's Patent Scroll Die for Brass Pipe

Will Thread Brass Pipe all sizes from 5-16 to 7/8 inch. each, $20.00

Order by catalogue numbers

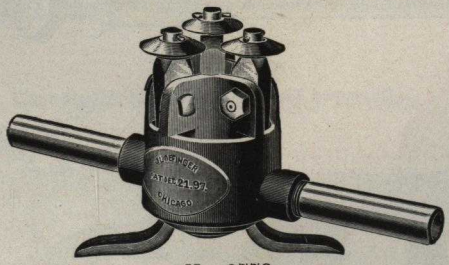


No. 0778

Pipe Cutting and Threading Machine

Where gas drops have been left too long, they can be shortened very easily It not only cuts the pipe, but threads it at the same time.

Each $15.00



No. 0779

Gas Pipe Outlet Cutter

This tool was invented for the purpose of cutting off gas pipe outlets, and is the only tool upon the market that will cut off drops within ⅜ inch of walls.

This tool will save its cost in a very short time upon combination or electric fixture work, and will do away with extra deep canopies and extension rings, which must be used sometimes.

Each $20.00

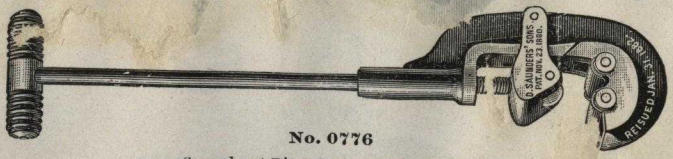
Order by catalogue numbers

Pipe Cutters

No. 0775

Walworth Pipe Cutter

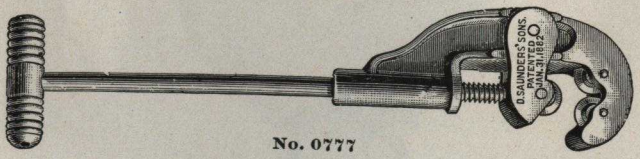
	No. 1 ⅛ to 1 inch	No. 2 ¾ to 2 inch	No. 3 2 to 3 inch
Each	$2.25	[illegible]	$10.50
Extra Blocks and Wheels	.90	.5	2.25
Extra Wheels	.18	28	.38



No. 0776

Saunders' Pipe Cutter with Rollers

	No. 1 ⅛ to 1 inch	No. 2 1 to 2 inch	No. 3 2 to 3 inch
Each	$4 50	$6.00	$15.00
Extra Wheels	.40	.50	1 00
Extra Wheels and Blocks	1.50	2.25	3.75
Extra Rollers	.40	.50	1.00



No. 0777

Improved Three-Wheel Pipe Cutter

	No. 1 ⅛ to 1 inch	No. 2 1 to 2 inch	No. 3 2 to 3 inch
Each	$4.00	$6.00	$15.00
Extra Wheels	.40	.50	1.00
Extra Blocks and Wheels	1.50	2.25	3.75

No. 0774

Armstrong's Three-Wheel Pipe Cutter

	No. 1 ⅛ to 1¼ inch	No. 2 ½ to 2½ inch	No. 3 1½ to 4 inch
Each	$4.50	$6.00	$15.00
Extra Wheels or Rollers	.40	.50	1.00

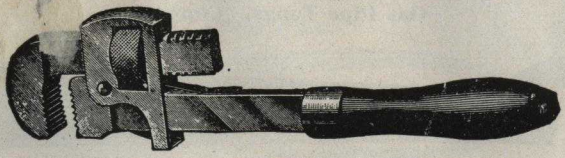
By the use of rollers this cutter can be changed from a three-wheel to a one-wheel.

Sheffy Pipe Wrench

No. 0754

Size 0,	7 inches long	for ⅛ to ½ inch pipe	each,	$2.40
" 1,	9 "	" ¼ to ¾ "	"	2.40
" 2,	12 "	" ⅜ to 1 "	"	2.70
" 3,	15 "	" ½ to 2 "	"	3 60
" 4,	18 "	" ⅜ to 2 "	"	4.80

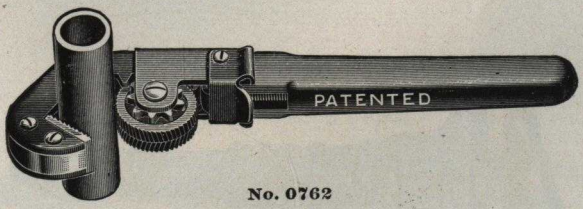
Stillson's Wrench



No. 0755

Takes from	⅛ to ½ inch pipe,	6 inch	each,	$2.25
"	⅛ to ¾ "	8 "	"	2.25
"	⅛ to 1 "	10 "	"	2.50
"	¼ to 2 "	14 "	"	3.50

Cleveland Double Grip Pipe Wrench



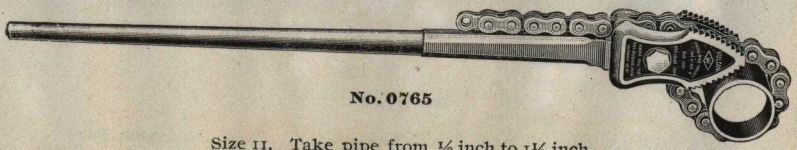
No. 0762

6 inch holds	½ inch pipe and smaller	each,	$2.00
8 " "	¾ " " "	"	2.00
10 " "	1 " " "	"	2.25
14 " "	1½ " " "	"	3.00
18 " "	2 " " "	"	4.25

No lost motion. Grips instantly and holds firmly at three points of contact. Cannot crush the pipe. Self adjusting from wire to large pipe.

Order by catalogue numbers

Vulcan Patent Drop-Forged Chain Pipe Wrench



No. 0765

Size 11. Take pipe from ⅛ inch to 1½ inch

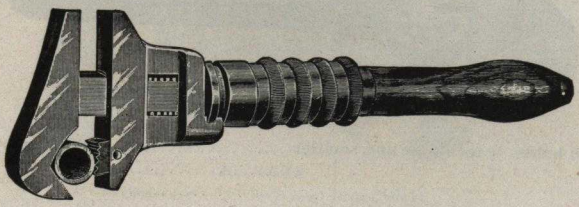
20 inches long ..... each, $5.25

Gas Pipe Tongs. Common

No. 0753

⅛ inch	each, $0.60		¾ inch	each, $0.90	
¼ "	" .65		1 "	" 1.10	
⅜ "	" .70		1½ "	" 1.50	
½ "	" .75		2 "	" 1.90	

Combination Wrench



No. 0766

10 inch. Style No. 45. Pipe ¼ to 1 inch

Each $3.25

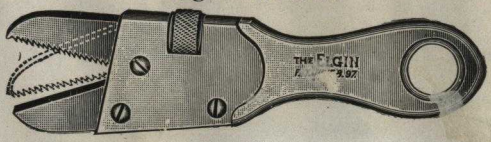
Order by catalogue numbers

Burner Wrench

No. 0763

Each $0.50

Elgin Wrench

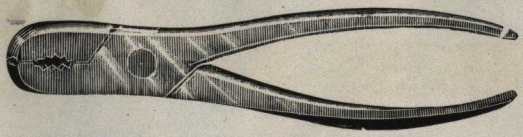


No. 0756

Nickel plated Light and effective
Will hold pipe, nipples, nuts, rods, etc.

Each $1.25

Gas Burner Pliers

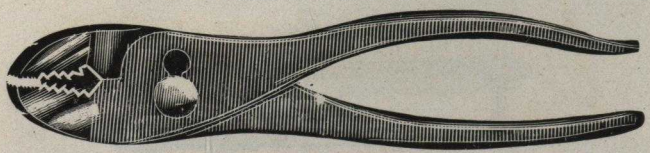


No. 0750
Polished Steel

5-inch, per dozen	$ 4.50
6 " " "	6.50
7 " " "	7.80
8 " " "	8.50
9 " " "	9.50
10 " " "	11.50
11 " " "	12.50
12 " " "	13.50

No. 0764
Reamer
Each, $0.60

Combination Pliers

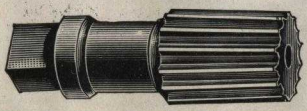


No. 0751.

6-inch, black, each	$2.00
6 " nickel, "	2.50

Order by catalogue numbers

Pipe Reamers



No. 0805

Size .....inches	⅛	¼	⅜	½	¾	1	1¼	1½
Price.....each	$0.60	$0.70	$0.90	$1.10	$1.35	$1.70	$2.05	$2.50

Lightning Taper Reamers. For Bit Brace Use

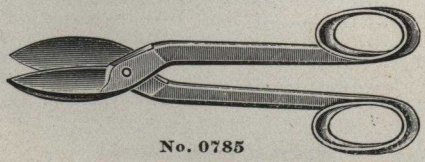
No. 0806

A set of these useful tools, one size running into another, enables a 3-16 inch hole to be enlarged to a 1¼ inch, if necessary. Each reamer leaves a true-cut hole.

¼	inch.....each,	$0.90	9-16	inch.....each,	$1.60	⅞	inch.....each,	$3.00
5-16	" ..... "	1.00	⅝	" ..... "	1.80	15-16	" ..... "	3.50
⅜	" ..... "	1.10	11-16	" ..... "	2.10	1	" ..... "	4 00
7-16	" ..... "	1.20	¾	" ..... "	2.40			
½	" ..... "	1.40	13-16	" ..... "	2.80			

Set of five sizes, ¼ inch to ½ inch.....In case, $ 6.00 Without case, $ 5.60
Set of nine sizes, ¼ inch to ¾ inch.....In case, 14.50 Without case, 13.50

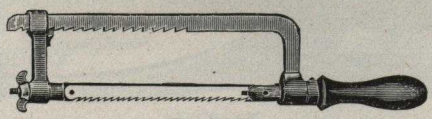
Snips



No. 0785

Cuts, inches.....2½ in.	3 in.	4 in.	4½ in.
Each..... $2.50	$2.70	$4.50	$5.40

Hack Saw



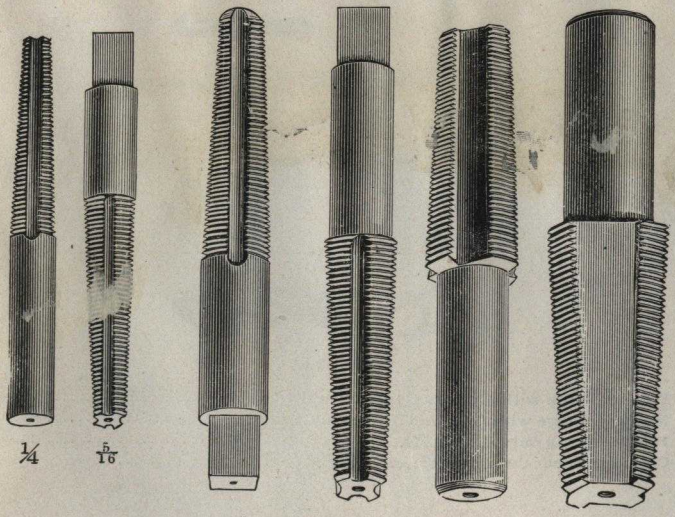
No. 0788

Extension Frame.....each, $2.00
Extra Blades, each, 8 in., 18c; 10 in., 20c; 12 in., 25c.

Order by catalogue numbers

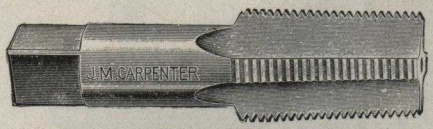
TAPS

Brass Thread



No. 0793

	1/4 inch	5-16 inch	3/8 inch	7-16 inch	1/2 inch
Taps for Brass Thread....each,	$0.65	$.75	$0.85	$0.90	$1.05



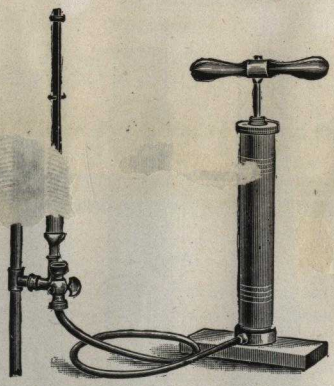
No. 0794

	1/8 inch	1/4 inch	3/8 inch	1/2 inch	3/4 inch
Taps for Iron Pipe.....each,	$0.65	$0.75	$0.85	$0.90	$1.05

No well-regulated workshop is without a full set of these taps. They save labor, and that means money. Did you ever wish you just had a tap for only a minute?

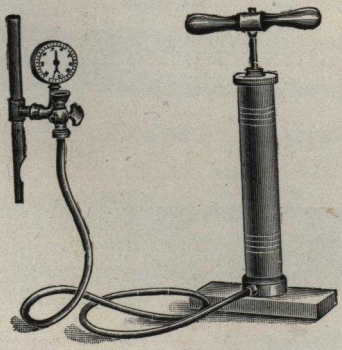
Order by catalogue numbers

GAS FITTERS' PROVING OR TESTING PUMPS



No. 0745

Proving Pump with Mercury Gauge, complete	$25.00
Mercury Gauge with Cock and Ether Cup	10.00
Proving Pump only	13.00
Cock and Ether Cup only	5.00



No. 0746

Proving Pump with Spring Gauge, complete	$30.00
Spring Gauge with Cock and Ether Cup	15.00

In ordering state clearly which is wanted

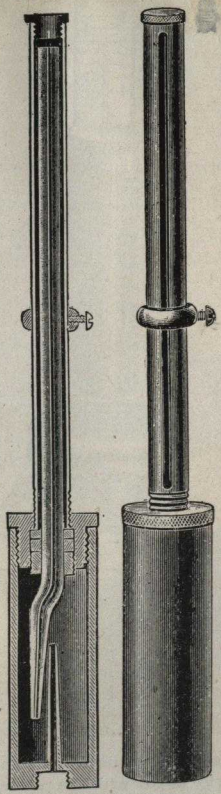
Order by catalogue numbers

GAS FITTERS'
POCKET MERCURY GAUGE

For Testing Gas Piping

Mercury will be Retained in any Position

MOST



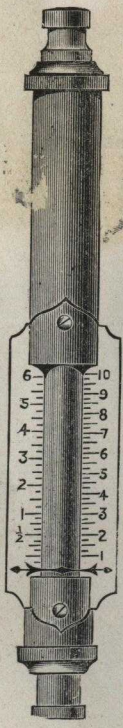
PERFECT

No. 0803

Improved 12½ inches long. Each.....$6.00

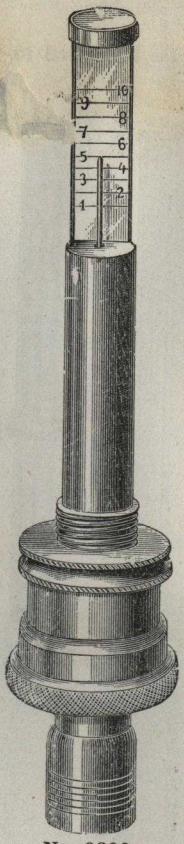
Order by catalogue numbers

Testing Gauges



No. 0801

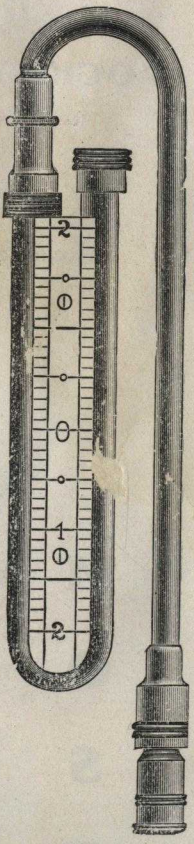
Thorp Gauge
Dry Pressure and Burner Tester
Each $18.00



No. 0800

This handy little device instantly shows the quantity of gas which is passing through a gas burner, by slipping it down over the burner as shown in the cut.

Each.....$6.50

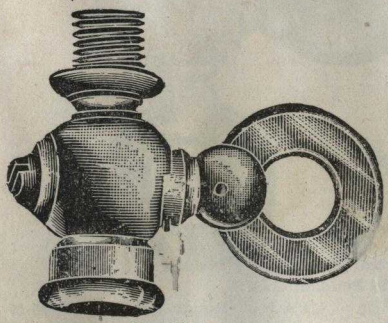


No. 0802

Water Pressure Gauge
For Testing Gas Pressure
4 inches, each.....$6.00
6 inches, each..... 7.50

Order by catalogue numbers

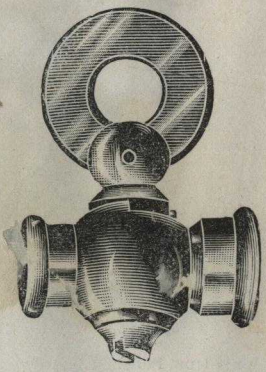
TURNED FITTINGS, POLISHED BRASS



No. 0900

Pillar Cock

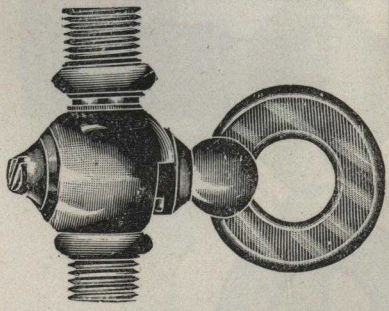
⅛x⅛ Iron	Polished.....dozen,		$3.84
⅛x⅛ "	Rough..... "		3.12
¼x⅛ "	Polished ..... "		5.00
¼x⅛ "	Rough..... "		4.00



No. 0901

Portable Lamp Cock

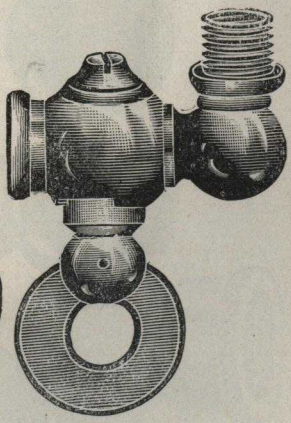
5-16x7-16 Brass,	Polished, dozen,		$3.60
5-16x7-16 "	Rough... "		3.12



No. 0908

Male Pillar Cock

⅛x⅛ Iron,	Polished .....dozen,		$4.08
⅛x⅛ "	Rough..... "		3.36



No. 0909

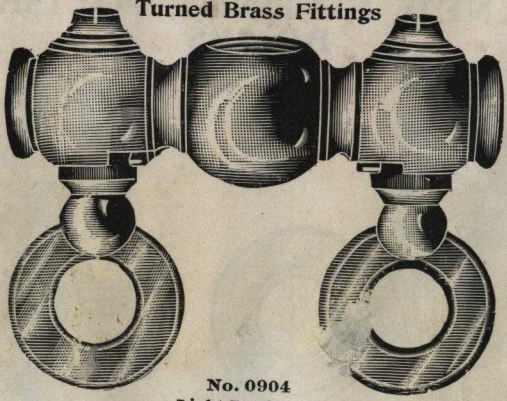
L Burner Cock

⅛x⅛ Iron,	Polished.....dozen,		$4.32
⅛x⅛ "	Rough..... "		3.60
¼x⅛ "	Polished..... "		6.00
¼x⅛ "	Rough ..... "		4.80

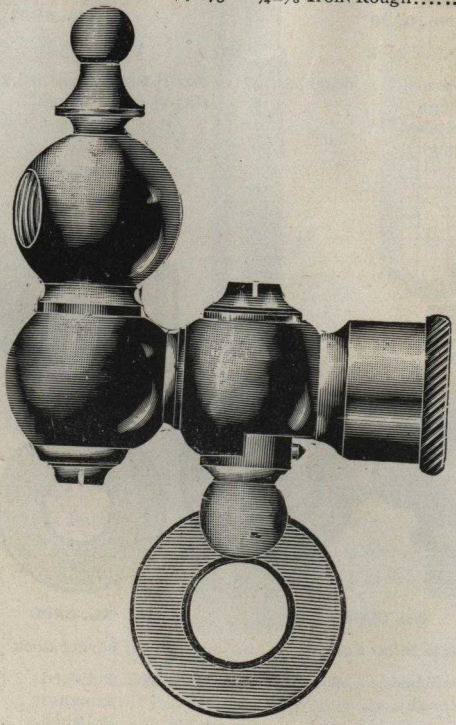
Above are Iron Pipe Sizes except No. 0901

Order by catalogue numbers

Turned Brass Fittings



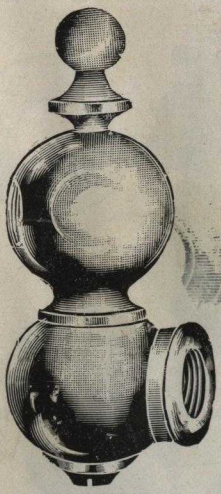
No. 0904
2 Light Pendant Cock
¼x⅛ Iron, Polished.....dozen, $6.75 ¼x⅛ Iron, Rough.....dozen, $5.50



No. 0907
Bracket Swing Cock
⅜ Iron x⅜ Brass, Polished..doz., $12.00 ⅜ Iron x⅜ Brass, Rough...doz., $10.00

Order by catalogue numbers

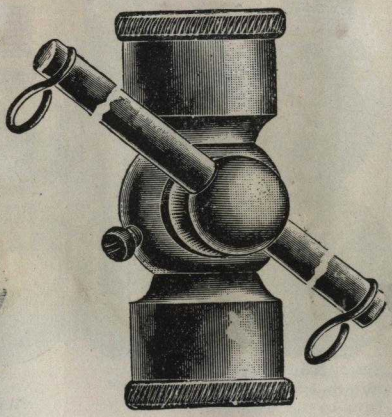
Turned Brass Fittings



No. 0911

Middle Swing

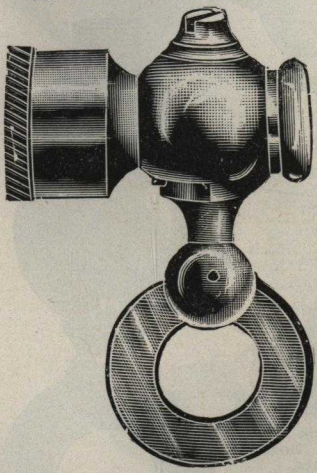
⅜x⅜ brass size, Polished, dozen $9.00
⅜x⅜ brass size, Rough, dozen 7.50



No. 0931

By Pass Cock

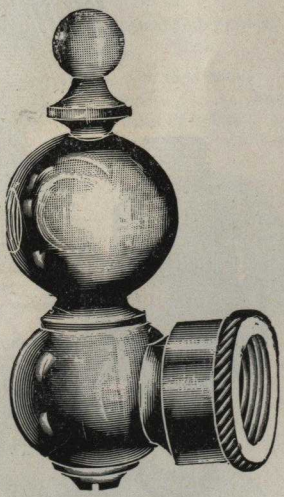
⅜ Iron, Polished ..... each, $1.25
⅜ " Rough ..... " 1.00



No. 0910

Stop Cock

⅜x⅛ Iron, Polished..... dozen, $5.28
⅜x⅛ " Rough..... " 4.32



No. 0903

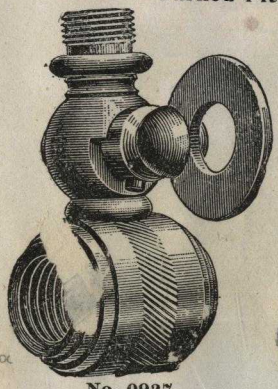
Bracket Swing

⅜ Iron x ⅜ Brass, Polished, dozen $10.80
⅜ Iron x ⅜ Brass, Rough, dozen 9.00

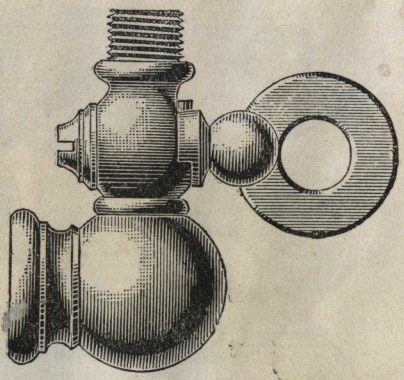
Iron Pipe Sizes except where mentioned

Order by catalogue numbers

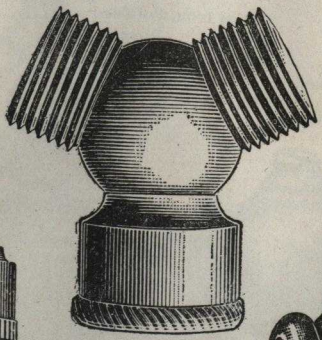
Turned Fittings, Polished Brass



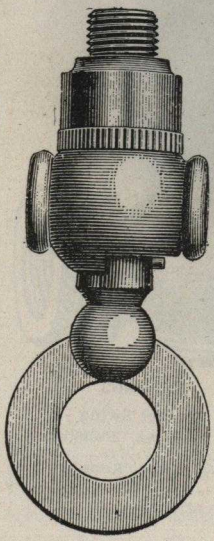
No. 0927
Window Fixture Cock
¼ Iron to ¼ Iron to Burner, Polished..doz. $6.00
¼ Iron to ¼ Iron to Burner, Rough..dozen, 4 80



No. 0926
Window Fixture Cock
¼ Iron to Burner, Polished..d
¼ " " Rough....



No. 0925
Y Body
Each
⅜ Iron, Polished..$0.40
⅜ " Rough... .32

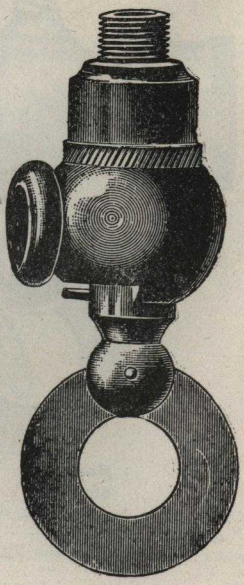


No. 0923

No. 0923
Harp Cock
Dozen
⅛ Iron, Polished..$6.00
⅛ " Rough... 4.80

No. 0924
Harp Cock
Dozen
⅛ Iron to Burner, Polished.....$6.00
⅛ Iron to Burner. Rough..... 4.80

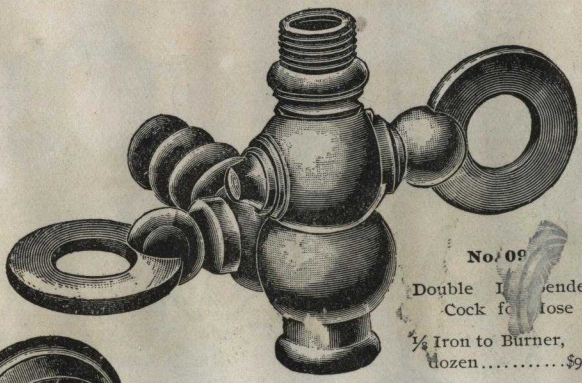
Above are Iron Pipe sizes



No. 0924

Order by catalogue numbers

Turned Fittings, Polished Brass



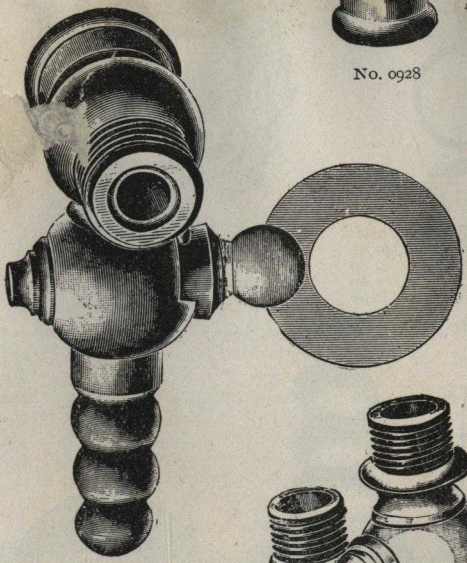
No. 0928

No. 09

Double I[illegible]endent Cock f[illegible]ose

⅛ Iron to Burner, dozen.....$9.0

This fitting enables one to take extra supply for hose off any gas arm without interfering with the light.



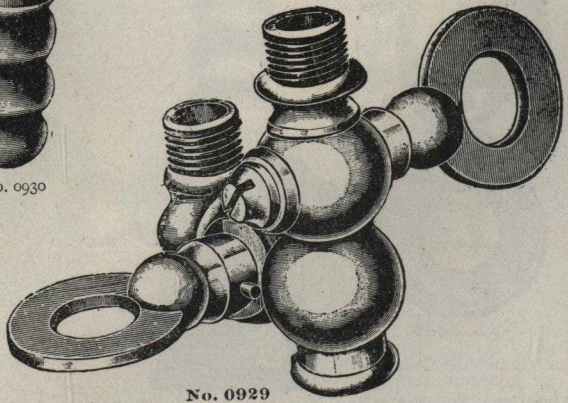
No. 0930

No. 0930

Turned Independent Cock

⅜ Iron to ⅜ Iron, dozen.....$9.00

¼ Iron to ¼ Iron, dozen..... 8.40



No. 0929

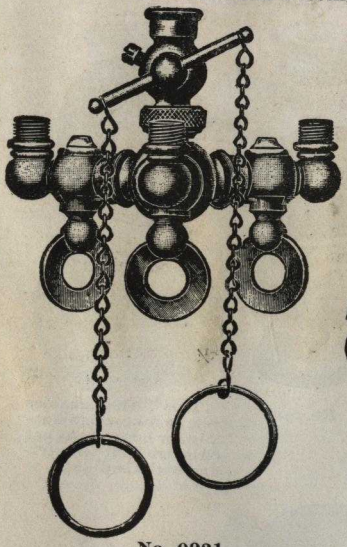
Double Independent Cock for Burner

⅛ Iron to Burner .....dozen, $9.00

Extra light can be taken from chandelier arm and each controlled separately as desired.

Order by catalogue numbers

Turned Fittings, Polished Brass

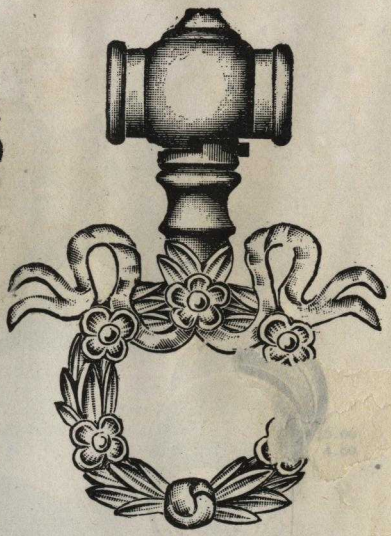


No. 0921

Pendant Cluster with By-Pass Cock

2 Light,	3½ inch	Spread..each,	$2.00
3 "	3½ "	" .. "	2.40
4 "	3½ "	" .. "	2.80

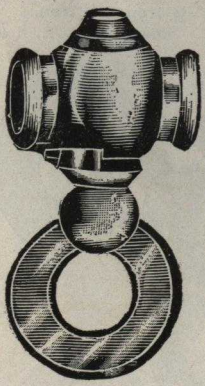
For ¼ inch Iron or ½ inch Brass Pipe



No. 0922

Chandelier Cock

⅛x⅛ Iron,	Polished.....	dozen, $4.00
⅛x⅛ "	Rough.....	" 3.20

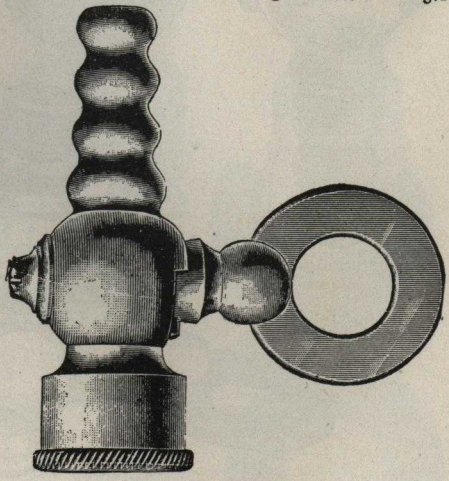


No. 0902

Chandelier Cocks

		Dozen
⅛x⅛ Iron,	Polished.	$3.50
⅛x⅛ "	Rough...	2.88
¼x¼ "	Polished.	5.00
¼x¼ "	Rough...	4.00

Above are Iron Pipe sizes



No. 0920

Turned Hose Cock

⅜ Iron	.....	dozen,	$6.00
¼ "	.....	"	5.25
⅛ "	.....	"	4.75

Order by catalogue numbers

Turned Fittings, Polished Brass

No. 0912

Side Nozzle

⅛x⅛ Iron ..dozen, $1.50
¼x⅛ " .. " 2.00

No. 0913

Straight Nozzle

⅛x⅛ Iron.. dozen, $1.50
¼x⅛ " .. " 2.00

No. 0914

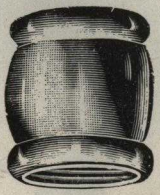
45° Nozzel

⅛x ⅛ Iron..dozen, $1.75
¼x⅛ " .. " 2.75

No. 0915

Polished Stiff Joints

⅛x⅛ Iron.....dozen, $2.90
⅛x⅜ " ..... " 2.00
⅛x¼ " ..... " 2.00
⅛x⅛ " ..... " 2.00
⅜x⅜ " ..... " 1.70
⅜x¼ " ..... " 1.50
⅜x⅛ " ..... " 1.50



No. 0916

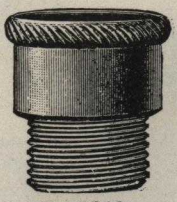
Connecting Ball

¼x¼ Iron, Polished.....dozen, $1.50
¼x⅛ " " ..... " 1.50
⅛x⅛ " " ..... " 1.50

No. 0918

Acorn Cap

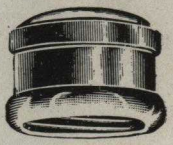
½ Iron....dozen, $1.75
⅜ " .... " 1.30
¼ " .... " 1.30
⅛ " .... " 1.30



No. 0919

Lengthening Piece

⅛ to ⅜ Iron..doz, $2.00
⅜ to ⅜ " " 1.75



No. 0917

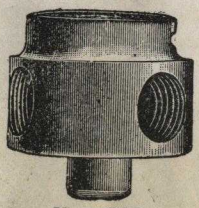
Cap

½ Iron....dozen, $1.75
⅜ " .... " 1.30
¼ " .... " 1.30
⅛ " .... " 1.30

Above are Iron Pipe sizes

Order by catalogue numbers

TURNED BRASS FITTINGS



No. 0878

Fixture Body, ¼ Top, ⅛ Side Holes

		Rough	Polished
2 Light	each,	$0.20	$0.25
3 "	"	.25	.30
4 "	"	.30	.35

No. 0877

Fixture Body, 1 inch Ball, ¼ Top, ⅛ Side Holes

		Rough	Polished
2 Light	each,	$0.20	$0.25
3 "	"	.25	.30
4 "	"	.30	.35

No. 0876

Fixture Body, ¼ Top, ⅛ Side Holes

		Rough	Polished
2 Lights	each,	$0 40	$0.50
3 "	"	.45	.55
4 "	"	.50	.60

No. 0875

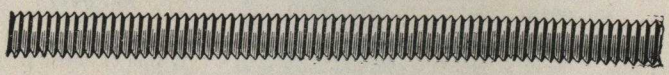
Ball and Screw

8-32 Polished ..... dozen, $0.40
Rough ..... " .32

No. 0880

Knob

Polished ..... dozen, $0.50
Rough ..... " .40



No. 0879

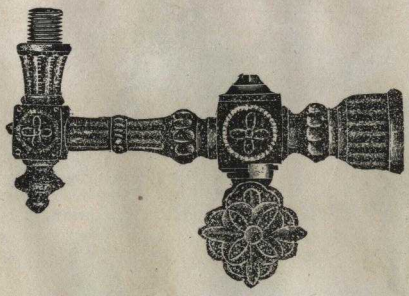
Threaded Wire

3 Foot Lengths, 8-32 ..... foot, $0.15

Special sizes to order

Order by catalogue numbers

CHASED BRASS FITTINGS

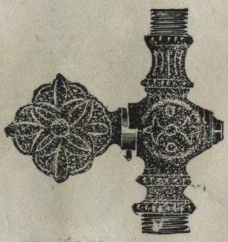


No. 0961

Long L Burner Cock

4 inches long.....dozen, $7.80

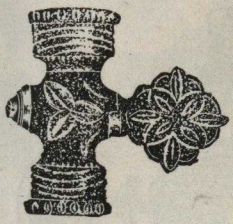
⅜ to Burner



No. 0966

Male Pillar Cock

⅜ to Burner	dozen, $5.55		
¼	" 5.20		
⅛	" 4.90		



No. 0965

Straight Cocks

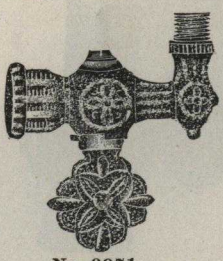
½x½	dozen, $6.20	⅜x⅜	dozen, $4.90
⅜x¼	" 4.55	⅜x⅛	" 4.55
¼x¼	" 4.55	¼x⅛	" 4.25

⅛x⅛.....dozen, $3.90

No. 0963

Pillar Cock

⅜ to Burner	dozen, $4.55		
¼	" 4.25		
⅛	" 3.90		



No. 0971

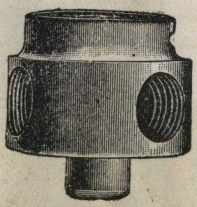
L Burner Cock

⅜ to Burner	dozen, $5.20		
¼	" 4.55		
⅛	" 4.25		

Above are Iron Pipe Sizes

Order by catalogue numbers

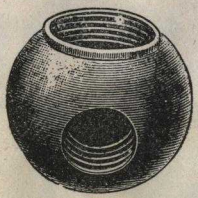
TURNED BRASS FITTINGS



No. 0878

Fixture Body, ¼ Top, ⅛ Side Holes

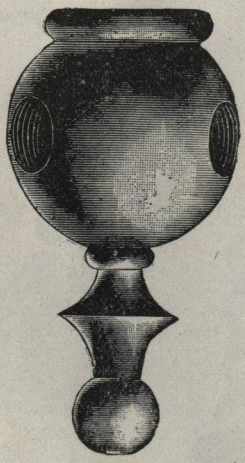
		Rough	Polished
2 Light	each,	$0.20	$0.25
3 "	"	.25	.30
4 "	"	.30	.35



No. 0877

Fixture Body, 1 inch Ball, ¼ Top, ⅛ Side Holes

		Rough	Polished
2 Light	each,	$0.20	$0.25
3 "	"	.25	.30
4 "	"	.30	.35



No. 0876

Fixture Body, ¼ Top, ⅛ Side Holes

		Rough	Polished
2 Lights	each,	$0 40	$0.50
3 "	"	.45	.55
4 "	"	.50	.60

No. 0875

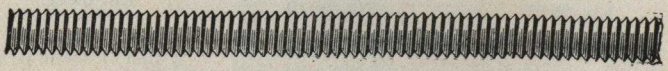
Ball and Screw

8-32 Polished	dozen,	$0.40
Rough	"	.32

No. 0880

Knob

Polished	dozen,	$0.50
Rough	"	.40



No. 0879

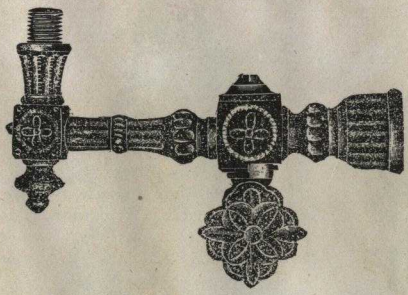
Threaded Wire

3 Foot Lengths, 8-32 ..... foot, $0.15

Special sizes to order

Order by catalogue numbers

CHASED BRASS FITTINGS



No. 0961

Long L Burner Cock

4 inches long.....dozen, $7.80

⅜ to Burner

No. 0966

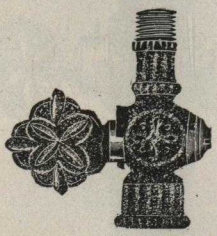
Male Pillar Cock

⅜ to Burner	dozen,	$5.55
¼ "	"	5.20
⅛ "	"	4.90

No. 0965

Straight Cocks

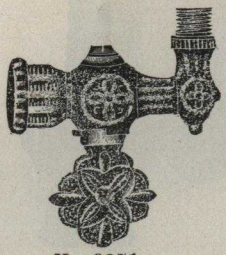
½x½	dozen,	$6.20	
⅜x¼	"	4.55	
¼x¼	"	4.55	
⅜x⅜	dozen,	$4.90	
⅜x⅛	"	4.55	
¼x⅛	"	4.25	
⅛x⅛	dozen,	$3.90	



No. 0963

Pillar Cock

⅜ to Burner	dozen,	$4.55	
¼ "	"	4.25	
⅛ "	"	3.90	



No. 0971

L Burner Cock

⅜ to Burner	dozen,	$5.20	
¼ "	"	4.55	
⅛ "	"	4.25	

Above are Iron Pipe Sizes

Order by catalogue numbers

Chased Brass Fittings

No. 0967

Independent Hose Cock

⅜	Large Gas Way.....dozen,	$7.00
¼	" " " ..... "	7.00
⅛	" " " ..... "	7.00

For Pillar Burner same price

No. 0976

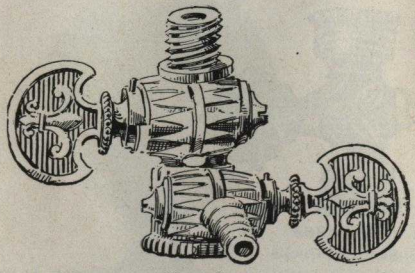
Hose Ends (Female)

⅜ inch	.....dozen,	$3.25
¼ "	..... "	2.95
⅛ "	..... "	2.60

No. 0959

Hose Ends (Male)

⅜ inch	.....dozen,	$3.55
¼ "	..... "	3.25
⅛ "	..... "	2.90



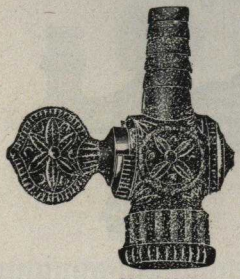
No. 0989

No. 0989

Double Independent Cock

⅛x⅛.....dozen, $12.00

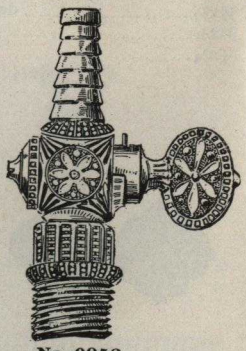
This Independent Cock will screw to any gas fixture arm permitting the use of hose from same arm without interfering with that arm.



No. 0968

Hose Cock

½ inch	.....dozen,	$5.55
⅜ "	..... "	4.90
¼ "	..... "	4.55
⅛ "	..... "	4.25



No. 0958

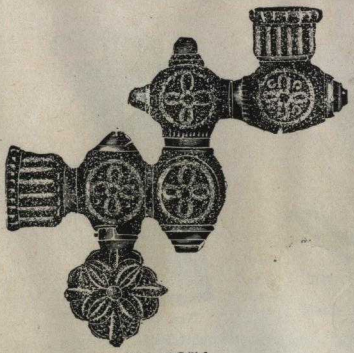
Male Hose Cock

½ inch	.....dozen,	$6.55
⅜ "	..... "	5.90
¼ "	..... "	5.55
⅛ "	..... "	5.25

Above are Iron Pipe Sizes

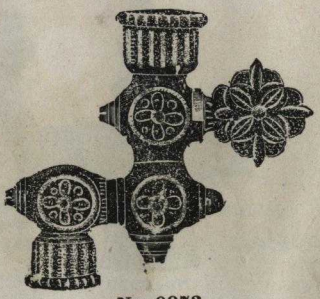
Order by catalogue numbers

Chased Brass Fittings



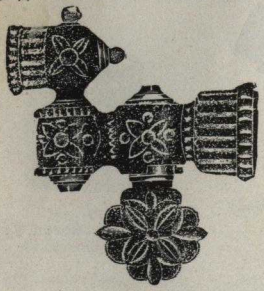
No. 0974
Universal Bracket Cock

Dozen		Dozen
⅜x⅜ $13 00	⅜x⅛	$12.05
⅜x¼ 12.35	¼x¼	12.05



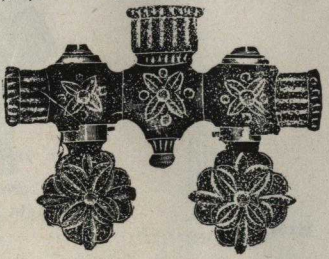
No. 0973
Universal Pendant Cock

Dozen		Dozen
⅜x⅜ $10.00	¼x¼	$9.10
⅜x¼ 9.75	¼x⅛	8.80
⅜x⅛ 9.45	⅛x⅛	8.60



No. 0962
Bracket Swing Cock

Dozen		Dozen
⅜x⅜ $9.10	⅜x⅛	$8.15
⅜x¼ 8.45	¼x¼	8.15

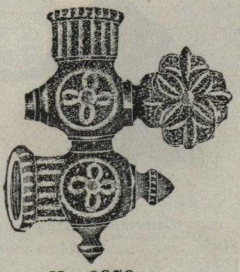


No. 0960
2 Light Pendant Cock

Dozen		Dozen
⅜x⅜ $10.25	¼x¼	$9.10
⅜x¼ 9.10	¼x⅛	8.45
⅜x⅛ 9.10	⅛x⅛	8.45

No. 0969
Revolving Pendant Cock

Dozen		Dozen
⅜x⅜ $8.50	¼x¼	$7.50
⅜x¼ 8.15	¼x⅛	7.15
⅜x⅛ 7.80	⅛x⅛	7.00



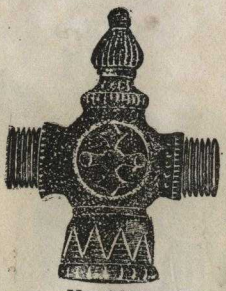
No. 0970
1 Light Pendant Cock

Dozen		Dozen
⅜x⅜ $5.85	¼x¼	$5.20
⅜x¼ 5.20	¼x⅛	4.90
⅜x⅛ 5.20	⅛x⅛	4.90

Above are Iron Pipe Sizes

Order by catalogue numbers

Chased Brass Fittings



No. 0979
2 Light Pillar Body

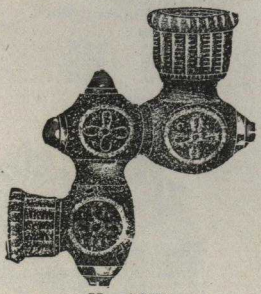
⅜x⅜.....dozen, $5.20
¼x¼..... " 5.20

No. 0978
1 Light Pillar [illegible]y

⅜x⅜..... [illegible]zen, $5.20

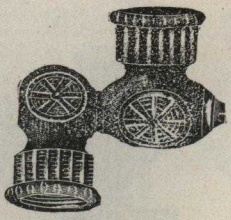
No. 0977
2 Light Bracket Body

⅜x⅜.....dozen, $3.90



No. 0975
Universal Swing Joints

⅜x⅜.....dozen, $9.10
⅜x¼..... " 8.80
⅜x⅛..... " 8.80
¼x¼..... " 8.45
¼x⅛..... " 8.15
⅛x⅛..... " 7.80



No. 0972
Swing Joints

⅜x⅜.....dozen, $6.20
⅜x¼..... " 5.55
⅜x⅛..... " 5.20
¼x¼..... " 4.90
¼x⅛..... " 4.55
⅛x⅛..... " 4.25

Above are Iron Pipe Sizes

Order by catalogue numbers

Chased Brass Fittings

No. 0980

Female Hook

⅜ inch..doz., $2.60

No. 0981

Male Hook

⅜ inch....dozen, $2.60

No. 0984

Brass Bushing

½x⅜	inch,	dozen,	$1.50
⅜x¼	"	"	1.00
⅜x⅛	"	"	1.00
¼x⅛	"	"	.75

No. 0986

Connecting Ball

⅛x⅛	inch,	dozen,	$1.00
¼x¼	"	"	1.30
¼x⅛	"	"	1.30

No. 0987

Stiff Joint

½x½	inch,	dozen,	$3.25
½x⅜	"	"	2.60
½x¼	"	"	2.60
⅜x⅜	"	"	1.95
⅜x¼	"	"	1.85
⅜x⅛	"	"	1.55

No. 0988

Lengthening Piece

⅜x⅜	inch,	dozen,	$1.95
½x⅜	"	"	2.60

No. 0985

Chased Brass Cap

⅜ inch....dozen, $1.95

No. 0983

Straight Nozzle

		Doz.
⅜	inch to Burner,	$1.95
¼	" "	1.65
⅛	" "	1.00

No. 0982

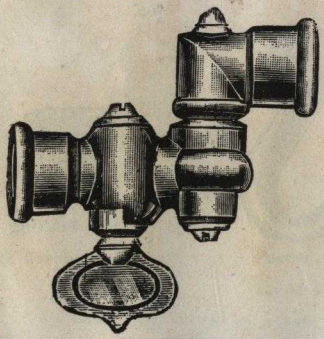
Side Nozzle

		Doz.
⅜	inch to Burner,	$2.30
¼	" "	1.65
⅛	" "	1.00

Above are Iron Pipe Sizes

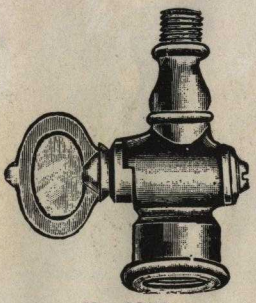
Order by catalogue numbers

EXTRA HEAVY BRASS FITTINGS



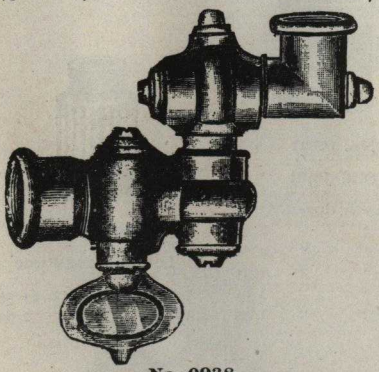
No. 0935
Bracket Swinging Cocks

⅜ iron to ⅜ iron	dozen,	$11.70
⅜ " " ¼ "	"	11.70
⅜ " " ⅛ "	"	11.70



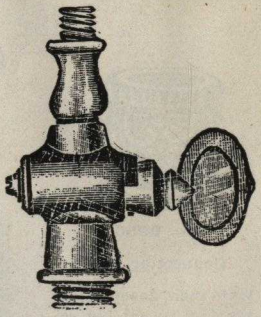
No. 0951
Pillar Cock

½ iron to ⅛ iron,	dozen,	$7.10
⅜ " " ⅛ "	"	6.50
¼ " " ⅛ "	"	6.20



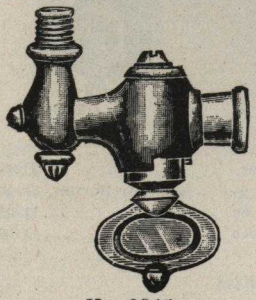
No 0938
Universal Bracket Cocks

⅜x⅜	dozen,	$16.90
⅜x¼	"	15.60
⅜x⅛	"	15.60



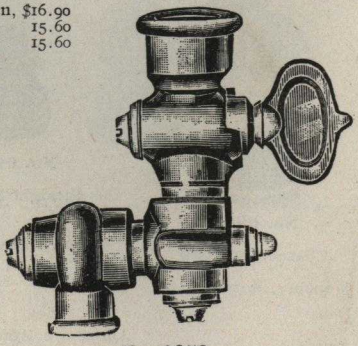
No. 0952
Male Pillar Cock

½ iron to ⅛ iron,	dozen,	$8.10
⅜ " " ⅛ "	"	7.50
¼ " " ⅛ "	"	7.20



No. 0943
L Burner Cock

⅛ iron to Burner,	dozen,	$9.10
⅜ " " "	"	7.80
¼ " " "	"	7.15
⅛ " " "	"	6.85

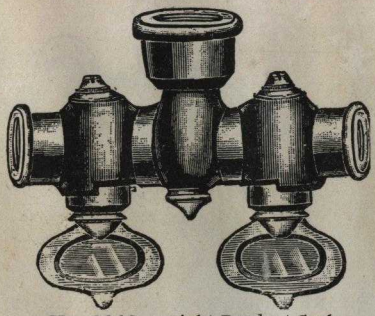


No. 0953
Universal Pendant Cock

⅜ iron to ⅜ iron	dozen,	$15.60
⅜ " " ¼ "	"	14.30
⅜ " " ⅛ "	"	13.00

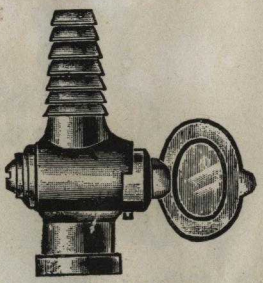
Order by catalogue numbers

Extra Heavy Brass Fittings



No. 0940 2 Light Pendant Cock

½ iron to ⅜ iron	dozen,	$15.60
½ " " ¼ "	"	15.60
⅜ " " ⅜ "	"	13.65
⅜ " " ¼ "	"	13.65
⅜ " " ⅛ "	"	13.65
¼ " " ¼ "	"	13.35
¼ " " ⅛ "	"	13.35
⅛ " " ⅛ "	"	13.35



No. 0942
Hose Cocks

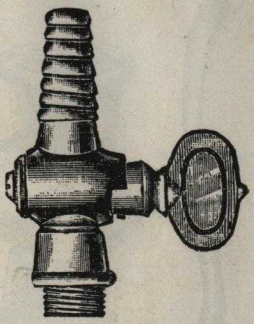
¾ iron	dozen,	$8.50
½ "	"	7.50
⅜ "	"	7.00

No. 0947
Straight Nozzle

	Doz.
⅜ iron to burner,	$2.25
¼ " "	2.00
⅛ " "	1.90

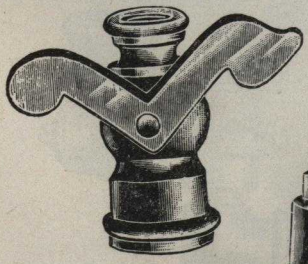
No. 0945
Side Nozzle

	Doz.
⅜ iron to burner,	$2.60
¼ " "	2.25
⅛ " "	2.00



No. 0948
Male Hose Cock

¾ iron	dozen,	$9.50
½ "	"	8.50
⅜ "	"	8.00

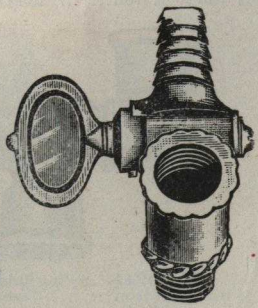


No. 01055
Female Lamp Post Cock

⅛x¼ inch	each,	$1.00
⅛x⅜ "	"	1.05
⅛x½ "	"	1.15
⅛x¾ "	"	1.25
⅛x1 "	"	1.40

No. 0946
Hose End

½ iron,	dz.	$5.25
⅜ "	"	4.75
¼ "	"	4.75

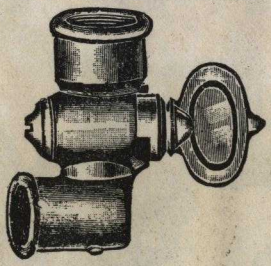


No. 0944
Independent Cock

½ to ⅜ iron	dozen,	$11.50
⅜ to ⅜ "	"	9.10

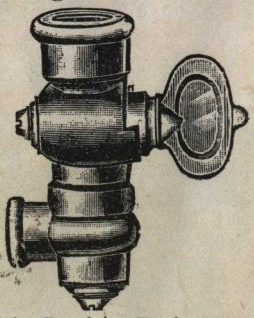
Order by catalogue numbers

Extra Heavy Brass Fittings



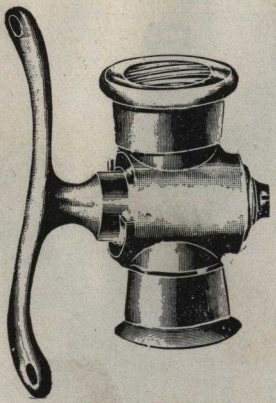
No. 0949. 1 Light Pendant Cock

3/8	iron to	3/8	iron	dozen,	$8.45
3/8	" "	1/4	"	"	7.80
3/8	" "	1/8	"	"	7.80
1/4	" "	1/4	"	"	7.80
1/4	" "	1/8	"	"	7.50



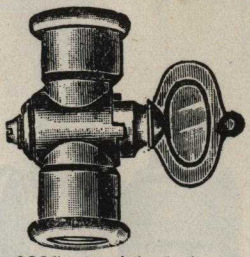
No. 0950. Revolving Pendant Cock

3/8	iron to	3/8	iron	dozen,	$11.05
3/8	" "	1/4	"	"	10.40
3/8	" "	1/8	"	"	10.40
1/4	" "	1/4	"	"	10.40
1/4	" "	1/8	"	"	10.40



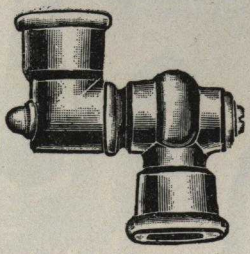
No. 0936. Lever Cock

3/8 iron to 3/8 iron.....dozen, $10.50



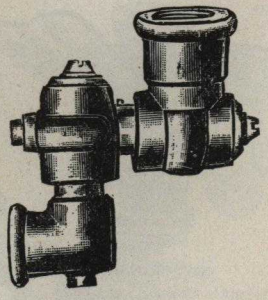
No. 0937. Straight Cock

1/2	iron to	1/2	iron	dozen,	$7.80
1/2	" "	3/8	"	"	7.50
3/8	" "	3/8	"	"	7.15
3/8	" "	1/4	"	"	7.15
3/8	" "	1/8	"	"	7.15
1/4	" "	1/4	"	"	6.85
1/4	" "	1/8	"	"	6.85
1/8	" "	1/8	"	"	6.85



No. 0941. Swing Joint

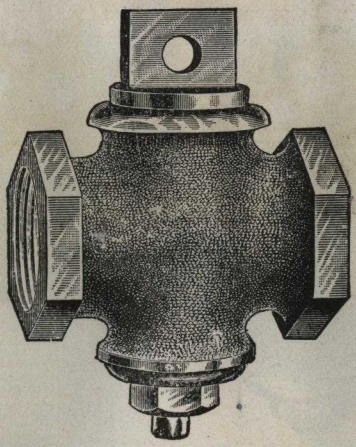
1/2	iron to	3/8	iron	dozen,	$10.40
1/2	" "	1/4	"	"	10.40
3/8	" "	3/8	"	"	9.45
3/8	" "	1/4	"	"	8.45
3/8	" "	1/8	"	"	8.15
1/4	" "	1/4	"	"	6.50
1/4	" "	1/8	"	"	6.50
1/8	" "	1/8	"	"	5.85



No. 0939. Universal Swing

3/8	iron to	3/8	iron	dozen,	$14.00
3/8	" "	1/4	"	"	13.00
3/8	" "	1/8	"	"	13.00
1/4	" "	1/4	"	"	12.35
1/4	" "	1/8	"	"	12.35
1/8	" "	1/8	"	"	12.05

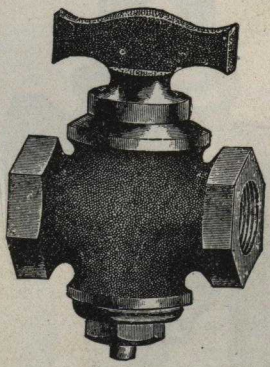
Service Cocks



No. 01058

Service Cock. Flat Head

¼ inch	each,	$0.75	1 inch	each,	$1.50
⅜ "	"	.85	1¼ "	"	2.25
½ "	"	.95	1½ "	"	3.10
¾ "	"	1.15	2 "	"	5.00



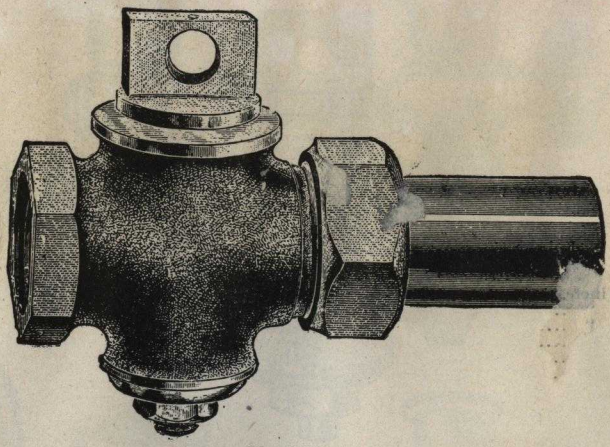
No. 01061

T Handle Gas Cocks

¼ inch, no check	each,	$0.75	¼ inch, with check	each,	$0.90
⅜ " "	"	.85	⅜ " " "	"	1.00

Order by catalogue numbers

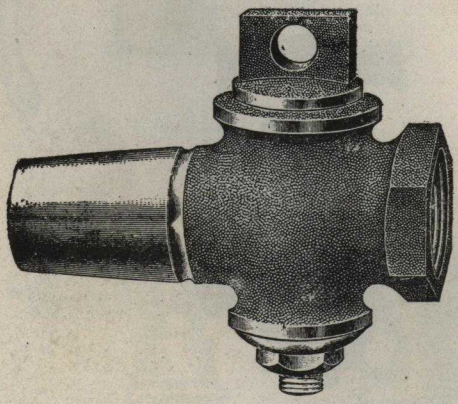
Service Cocks



No. 01052

Union Meter Cock. Flat Head

½ inch	each,	$1.40	1¼ inch	each,	$3.40
¾ "	"	1.55	1½ "	"	5.00
1 "	"	2.20	2 "	"	7.00

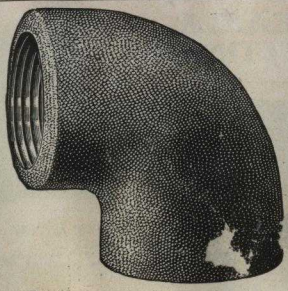


No. 01053

Meter Cock. Flat Head

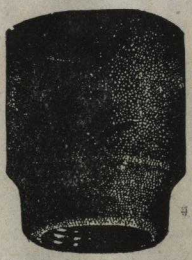
½ inch	each,	$1.30	1¼ inch	each,	$3.00
¾ "	"	1.40	1½ "	"	4.25
1 "	"	1.95	2 "	"	6.00

Order by catalogue numbers



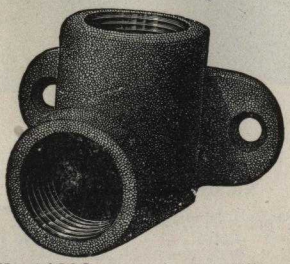
No. 01004. Elbow

	Black	Galv'zed
.....each,	$0.04	....
..... "	.04	$0.05
..... "	.06	.08
½ " ..... "	.10	.14
¾ " ..... "	.15	.20
1 " ..... "	.22	.32
1¼ " ..... "	.25	.40
1½ " ..... "	.35	.60
2 " ..... "	.50	.90



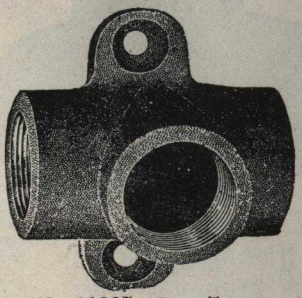
No. 01005. Reducing Coupling

	Black	Galv'zed
⅜ inch.....each,	$0.03	$0.05
½ " ..... "	.05	.08
¾ " ..... "	.10	.15
1 " ..... "	.16	.25
1¼ " ..... "	.20	.35
1½ " ..... "	.28	.45



No. 01006. Female Drop Elbow

	Black	Galv'zed
¼ inch.....each,	$0.06	....
⅜ " ..... "	.08	$0.12
½ " ..... "	.12	.20
¾ " ..... "	.20	.35
1 " ..... "	.30	.40



No. 01007. Drop Tree

	Black	Galv'zed
¼ inch.....each,	$0.08	....
⅜ " ..... "	.10	$0.15
½ " ..... "	.14	.25
¾ " ..... "	.22	.40
1 " ..... "	.30	.55

No. 01010. Coupling

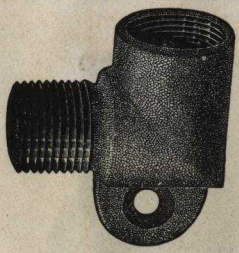
	Black	Galv'zed
⅛ inch.....each,	$0.03	....
¼ " ..... "	.03	$0.05
⅜ " ..... "	.04	.07
½ " ..... "	.07	.10
¾ " ..... "	.10	.17
1 " ..... "	.14	.23
1¼ " ..... "	.20	.30
1½ " ..... "	.25	.40

No. 01011. Coupling
Right and Left

	Black	Galv'zed
¼ inch.....each,	$0.04	$0.06
⅜ " ..... "	.05	.08
½ " ..... "	.08	.10
¾ " ..... "	.12	.17
1 " ..... "	.16	.25
1¼ " ..... "	.25	.35
1½ " ..... "	.36	.55

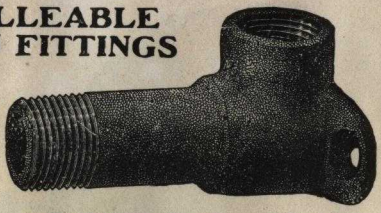
Order by catalogue numbers

MALLEABLE IRON FITTINGS



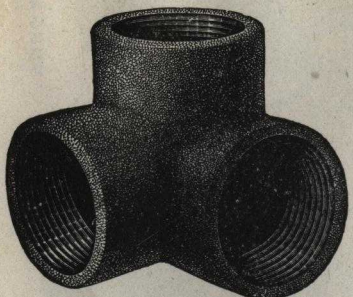
No. 01008. Drop Elbow
Male and Female

	Black	Galv'zed
⅜x¼ inch....each,	$0.08	$0.14
⅜ " .... "	.08	.17



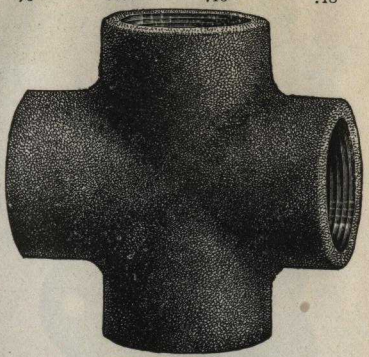
No. 01009. Long Drop Elbow
Male and Female

	Black	Galv'zed
⅜x¼ inch....each,	$0.10	$0.18
⅜ " .... "	.10	.18



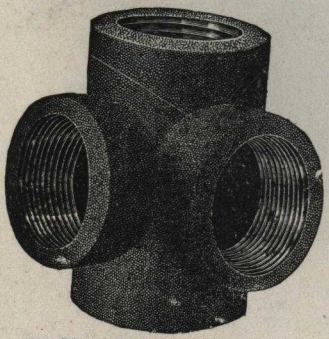
No. 01003. Side Outlet Elbow

	Black	Galv'zed
⅜ inch.....each,	$0.08	$0.10
½ " ..... "	.10	.15
¾ " ..... "	.18	.23
1 " ..... "	.30	.43
1¼ " ..... "	.45	.65
1½ " ..... "	.60	.85



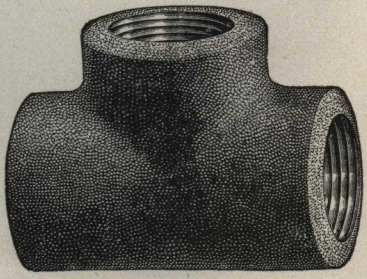
No. 01002. Plain Cross

	Black	Galv'zed
¼ inch.....each,	$0.08	....
⅜ " ..... "	.10	$0.15
½ " ..... "	.12	.17
¾ " ..... "	.20	.25
1 " ..... "	.30	.45
1¼ " ..... "	.40	.60
1½ " ..... "	.60	.90
2 " ..... "	1.00	1.50



No. 01000. Side Outlet Tee

	Black	Galv'zed
½ inch.... ...each,	$0.14	$0.19
¾ " ..... "	.20	.25
1 " ..... "	.35	.45
1¼ " ..... "	.50	.70
1½ " ..... "	.80	.95



No. 01001. Plain Tee

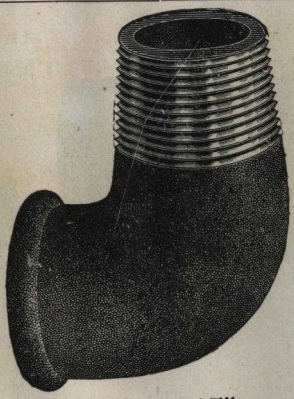
	Black	Galv'zed
⅛ inch.....each,	$0.07	....
¼ " ..... "	.07	....
⅜ " ..... "	.08	$0.10
½ " ..... "	.11	.16
¾ " ..... "	.15	.20
1 " ..... "	.25	.38
1¼ " ..... "	.30	.50
1½ " ..... "	.45	.70

No. 01014
Short Close Nipple

Black		
⅛ inch,	each,	$0.03
¼	"	.03
⅜	"	.03
½	"	.04
¾	"	.05
1	"	.06
1¼	"	.09

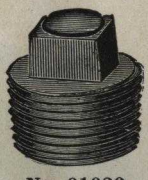
Galvanized		
⅛ inch,	each,	$0.04
¼	"	.04
⅜	"	.04
½	"	.05
¾	"	.07
1	"	.09
1¼	"	.12

All sizes in proportion



No. 01013. Street Elbow

		Black	Galv'zed
⅜ inch	each,	$0 10	$0.12
½	"	.12	.15
¾	"	.20	.28
1	"	.25	.35
1¼	"	.40	.55
1½	"	.55	.80
2	"	.90	1.30



No. 01020
Plug

Black		
¼ inch,	each,	$0.02
⅜	"	.02
½	"	.02
¾	"	.03
1	"	.04
1¼	"	.05
1½	"	.07

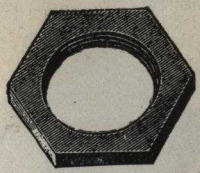
Galvanized		
¼ inch,	each,	$0.04
⅜	"	.04
½	"	.04
¾	"	.06
1	"	.08
1¼	"	.10
1½	"	.14

No. 01016. Bushing, Faced

		Black	Galv'zed
⅜ inch	each,	$0.08	$0.16
½	"	.09	.18
¾	"	.11	.22
1	"	.13	.26
1¼	"	.17	.34
1½	"	.22	.44

No. 01030. Common Bushing

		Black	Galv'zed
⅜ inch	each,	$0.04	$0.08
½	"	.04	.08
¾	"	.05	.10
1	"	.06	.12
1¼	"	.07	.14
1½	"	.09	.18

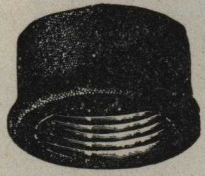


No. 01028. Lock Nut

		Black	Galv'zed
¼ inch	each,	$0.02	$0.03
⅜	"	.03	.04
½	"	.04	.05
¾	"	.05	.07
1	"	.07	.10
1¼	"	.09	.14
1½	"	.11	.20

No. 01015
Extension Piece

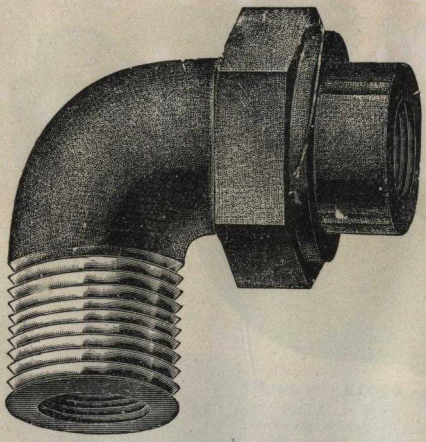
Black		
⅜ inch	each,	$0.06
½	"	.09
¾	"	.12



No. 01029. Cap

		Black	Galv'zed
¼ inch	each,	$0.03	$0.04
⅜	"	.04	.05
½	"	.05	.08
¾	"	.08	.12
1	"	.12	.17
1¼	"	.16	.24
1½	"	.24	.38

Order by catalogue numbers

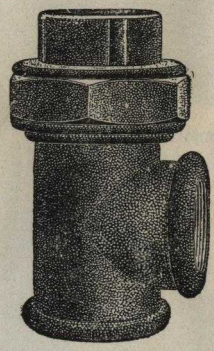


No. 01019

Boiler Elbow. With Union

1 inch, male tapped ½ inch, ½ inch union ..... each, $0.40

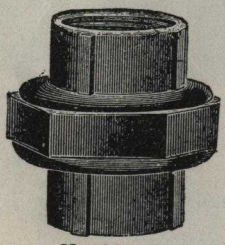
1 inch, male tapped ½ inch, ¾ inch union ..... each, .45



No. 01012

Union Tee

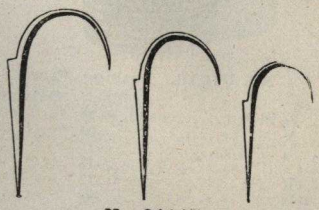
		Black	Galv'zed
½ inch	each,	$0.45	$0.68
¾ "	"	.57	.86
1 "	"	.70	1.05
1¼ "	"	.95	1.45
1½ "	"	1.15	1.75
2 "	"	1.70	2.55



No. 01027

Union. Lipped

		Black	Galv'zed
⅛ inch	each,	$0.18	$0 27
¼ "	"	.18	.27
⅜ "	"	.20	.30
½ "	"	.22	.33
¾ "	"	.27	.40
1 "	"	.33	.50
1¼ "	"	.46	.70
1½ "	"	.58	.90



No. 01017

Gas Hooks

¼ inch	per 100,	$0.45
⅜ "	"	.55
½ "	"	.65
¾ "	"	.80
1 "	"	1.00
1¼ "	"	1.30
1½ "	"	1.60

No. 01018

Tinned Straps

¼ inch	per 100, $1.00	¾ inch	per 100, $1.50
⅜ "	" 1.00	1 "	" 2.00
½ "	" 1.00	1¼ "	" 2.50
1½ inch	per 100, $3.50		

Order by catalogue numbers

Iron Bodies, Hooks, Etc.

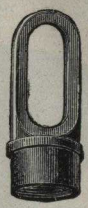
No. 0430
Iron Wall Plate, Male
⅜ inch.....dozen, $2.00

No. 0431
Iron Hooks, Male
⅜ inch..dozen, $0.60

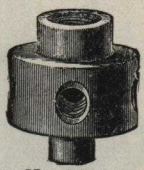
No. 0432
Iron Hooks, Female, ⅜ in. doz., $0.60

No. 0434
Iron Loops, Male,
⅜ inch....dozen, $0.60

No. 0440
Two-Light Iron Chandelier Body, ¼x¼ inch .....dozen, $0.90



No. 0435
Iron Loops, Female,
⅜ inch.....dozen, $0.60



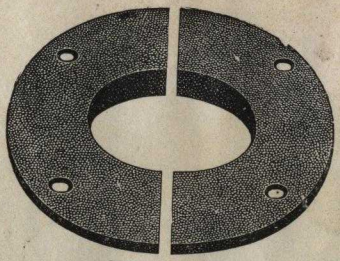
No. 0441
Iron Chandelier Body

Style No.	Diam. inches	Size		LIGHTS 2	3	4	5	6	8	10	12
8	1¼	¼x⅛	Each....	$0 09	$0.11	$0.13	.....	.....	.....	.....	.....
11	1 9/16	¼x⅛	"	.12	.14	.16	$0.18	$0.20	.....	.....	.....
11	1 9/16	¼x¼	" ...	.13	.15	.17	.19	.21	.....	....	.....
12	1¼	¼x¼	"	.10	.12	.14	.....	.....	.....	.....	.....
11	1 9/16	⅜x⅛	"	.14	.16	.18	.20	.22	.....	.....	.....
13	2⅛	⅜x¼	"	.15	.17	.19	.21	.23	$0.25	$0.30	$0.35
13	2⅛	⅜x⅜	"	.16	.18	.20	.22	.24	.26	.32	.37
4	3	½x¼	"	.40	.42	.44	.46	.50	.63	.75	.85
17	3¼	½x⅜	"	.80	.85	.90	.95	1.00	1.10	1.20	1.25

Iron Pipe Sizes

Always specify Style No., Size and Lights

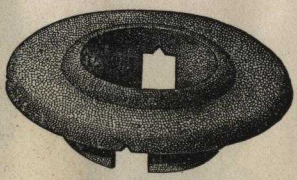
Order by catalogue numbers



No. 01021

Floor Plates in Halves

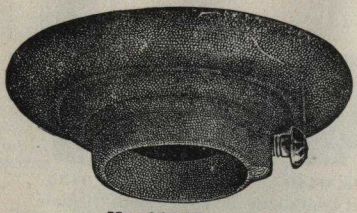
	Each		Each
½ inch	$0.06	1¼ inch	$0.11
¾ "	.06	1½ "	.14
1 "	.08	2 "	.16



No. 01024

Floor Plate with Groove

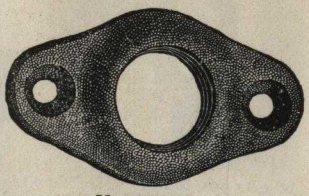
	Each		Each
½ inch	$0.06	1¼ inch	$0.11
¾ "	.06	1½ "	.14
1 "	.08	2 "	.16



No. 01025

Ceiling Plate

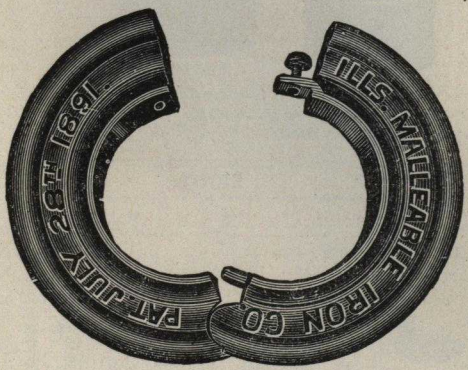
	Each		Each
½ inch	$0.11	1¼ inch	$0.18
¾ "	.13	1½ "	.23
1 "	.16	2 "	.27



No. 01023

Waste Nut

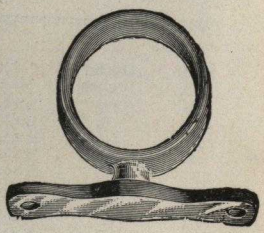
	Black	Galv'zed
¼ inch	each, $0.04	$0.08
⅜ "	" .05	.10
½ "	" .06	.12
¾ "	" .08	.16
1 "	" .10	.20



No. 01026

Chicago Ceiling Plate

¾ inch	each, $0.22	1½ inch	each, $0.40
1 "	" .28	2 "	" .50
1¼ "	" .32	2½ "	" .65
		3 inch	each, $0.90



No. 01022

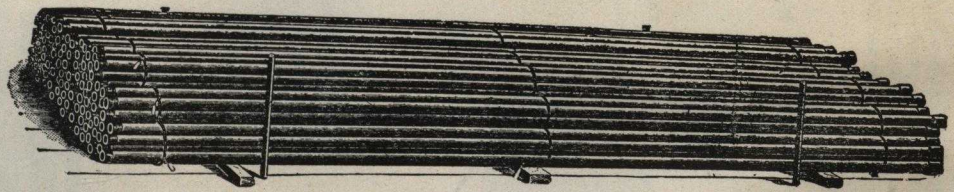
Galvanized Ring Hanger

½ inch	each, $0.12
¾ "	" .16
1 "	" .20

Order by catalogue numbers

WROUGHT IRON PIPE

For Gas, Steam and Water



No. 01040

BLACK			GALVANIZED		
⅛ inch	foot,	$0.05½	⅛ inch	foot,	$0.08
¼ "	"	.05½	¼ "	"	.07½
⅜ "	"	.05½	⅜ "	"	.07½
½ "	"	.08½	½ "	"	.12
¾ "	"	.11½	¾ "	"	.16½
1 "	"	.16½	1 "	"	.24
1¼ "	"	.22½	1¼ "	"	.33
1½ "	"	.27	1½ "	"	.40
2 "	"	.36	2 "	"	.54

Pipe cut special lengths and threaded. Prices on application

Unless otherwise ordered, black pipe, random lengths, threaded, with couplings, will be sent

Order by catalogue numbers

A "PERFECT" METALLIC GAS TUBING

That will last a lifetime
That will not leak
That is absolutely fire-proof
That is entirely odorless
That is light and flexible

No. 0665

6 ft.	long..	each,	$2.25
8	" ..	"	2.80
10	" ..	"	3.25
12	" ..	"	3.60

Finished to match
Portable
Specify finish wanted

Order by catalogue numbers

Flexible Metallic Tubing, Asbestos Packed, for Stoves

No. 0666

5-16 Galvanized Steel Tubing fitted with Rubber Ends

	Each		Each
2 ft. Length	$0.85	6 ft. Length	$2.20
3 ft. "	1.20	8 ft. "	2.65
4 ft. "	1.45	10 ft. "	3.30
5 ft. "	1.80	12 ft. "	3.60

Flexible Metallic Tubing, for Cigar Lighters

No. 0659

Asbestos Packed. Finished Polished Brass and Copper

	Each		Each
12 in. Length	$0.80	24 in. Length	$1.05
8 in. "	.85	30 in. "	1.30

36 in. Length ..... each, $1.50

Order by catalogue numbers

Gas Fitters' Rules

The following tables show the proportionate size and length of tubing allowed

Office Buildings, Dwelling Houses and Flats

MANUFACTURED GAS FOR LIGHT

Size of Tubing	Greatest Length Allowed	Greatest Number of ⅜-in. Openings Allowed
⅜-inch	20 feet	2 openings
½-inch	30 feet	3 openings
¾-inch	60 feet	10 openings
1-inch	70 feet	15 openings
1¼-inch	100 feet	30 openings
1½-inch	150 feet	60 openings
2-inch	200 feet	100 openings
2½-inch	200 feet	200 openings
3-inch	300 feet	300 openings

Drops in double parlors, large rooms and halls of office buildings must not be less than ½-inch.

Stores, Hospitals, Schools, Factories, Etc.

MANUFACTURED GAS FOR LIGHT

Size of Tubing	Greatest Length Allowed	Greatest Number of ½-in. Openings Allowed
½-inch	20 feet	1 opening
¾-inch	60 feet	8 openings
1-inch	70 feet	12 openings
1¼-inch	100 feet	20 openings
1½-inch	150 feet	35 openings
2-inch	200 feet	50 openings

For stores the running line to be full size to end of last opening. All drops to be ½-inch with set not less than 4 inches. Twenty feet of ⅜ inch pipe allowed only for bracket lights.

BUILDING SERVICES

In running service pipe from front wall to meters the following rules will apply

Size of Opening	Greatest Length Allowed	Greatest Number of ¾-in. Openings Allowed
1-inch	70 feet	1 opening
1¼-inch	100 feet	3 openings
1½-inch	150 feet	5 openings
2-inch	200 feet	8 openings

All openings in service must be equal to the size of riser, which in no case must be less than ¾-inch.

MANUFACTURED GAS FOR FUEL

Size of Tubing.	Greatest Length Allowed.	Greatest Number of ¾-inch Openings Allowed.
¾-inch	50-feet	One ¾-in.. or two ½-in.
1-inch	70-feet	Two, or one ¾-in. and two ½-in.
1¼-inch	100-feet	Four, or two ¾-in. and four ½-in.
1½-inch	150-feet	Seven, or four ¾-in. and six ½-in.
2-inch	200-feet	Fifteen, or eight ¾-in. and fourteen ½-in.

For mantles, grates and small heating appliances, for heating space not to exceed 1728 cubic feet, thirty feet of ½-inch pipe is allowed for one opening only, and two such openings are considered as one ¾-inch opening.

FOR GAS ENGINES

Size of Engine.	Size of Opening.	Greatest Length Allowed.
1 H. P.	1-inch	60 feet
2 H. P.	1¼-inch	70 feet
5 H. P.	1½-inch	100 feet
7 H. P.	1½-inch	100 feet
12 H. P.	2-inch	140 feet

Supply for gas engine must be separate, and an independent service will be required.

NATURAL GAS FOR FUEL

Classification of Appliances.	Size of Openings.	Greatest Length Allowed.
Small portable gas cooking stove	½-inch	20 feet
Small portable gas heating stove	½-inch	20 feet
Kitchen boiler heater when separated from range	½-inch	20 feet
Miscellaneous appliances consuming less than 15 cubic feet per hour each	½-inch	20 feet
Gas cooking ranges	¾-inch	30 feet
Ordinary coal ranges, equipped for the use of gas	¾-inch	30 feet
Large heating stoves	¾-inch	30 feet
Gas logs or other grate fires	¾-inch	30 feet
Miscellaneous appliances consuming 15 to 40 cubic feet of gas per hour each	¾-inch	30 feet
Miscellaneous appliances consuming 40 to 75 cubic feet of gas per hour	1-inch	60 feet
Hot air furnaces for heating 10-room buildings or less	1¼-inch	70 feet
Hot air furnaces for heating 10 to 15-room buildings	1½-inch	100 feet
Low pressure steam or circulating water boiler for heating 10 rooms or less	1½-inch	100 feet
Low pressure steam or circulating water boiler for heating 10 to 15-room house	2-inch	140 feet
Low pressure steam or circulating water boiler for heating 16 to 26-room houses	2½-inch	200 feet
Low pressure steam or circulating warer boiler for heating 27 to 50 rooms	3-inch	300 feet
Low pressure steam or circulating water boiler for heating 50 to 80 rooms	4-inch	400 feet

For special purposes not provided for above, apply to the Gas Company's Inspector for information.

SUMMARY

1 All branches or cross lines of pipe from the main line must have a set not less than four inches dropped square, and must be well secured to joist by gas hooks or straps.

2 All openings must be closed with iron caps, no split pipe or broken fittings repaired with cement or lead will be allowed.

3 All drops on branch lines and openings for side brackets must be square bends; no nipples allowed.

4 The risers in all buildings must be carried up an inside partition out of reach of frost, and must be placed where the meter and stop cock can be readily got at. Vestibules not to be considered as inside partitions.

5 To avoid trapping, gasfitters must grade all pipes to riser or drops.

6 In no case will a meter be set where it is not easily accessible, or where it is exposed to frost and dampness, or liable to injury from any cause.

7 All pipes for fuel must be run independent, and connected to light riser at meter end, with right and left, union, or running thread.

8 Supply for gas engines must be separate, and an independent service will be required.

9 Drops in churches, schools, public halls, stores, double parlors, large rooms, etc., must not be less than ½ inch.

10 No riser in any building must be less than ¾ inch, and in stores must not be under deck of show windows, as meter will not be set there.

11 The riser in any building must not be less than 20 inches from the floor for two to ten openings.

2 feet 6 inches for ten to thirty openings.

4 feet for thirty to sixty openings.

5 feet for sixty to one hundred openings.

6 feet for over one hundred openings.

Where meters are to be set on wall, no riser must be higher than 9 feet from the floor.

12 In all cases where extensions are made, care must be taken to break pipe where the rule for size can be maintained, and in no case shall extensions be made from small pipes.

13 In flat buildings meters should be set in basement or in room provided for meters; otherwise in premises where gas is consumed.

14 All risers and building services must be brought to front of building and within 18 inches of wall or partition, and must not be less than 15 inches apart where risers are grouped.

15 In all cases where building service is used, provide header with an opening for each riser; where risers are in groups, openings must not be less than 15 inches apart.

16 Underground work by gasfitters between main and meter will not be allowed or accepted.

17 To avoid complications, gasfitters should consult Gas Company before locating risers in corner buildings.

18 In flat buildings where appliances are installed for the joint use of tenants, such as laundry stoves, driers, etc., run pipe from each meter to laundry and provide a header with a lock cock for each tenant. Fasten securely to each cock a metal tag with the flat number plainly marked thereon.

19 All work must be proved with mercury guage, not less than a 6-inch column of mercury being allowed.

20 All pipes must be examined by the Inspector of Gas Company before being concealed, and twenty-four hours' notice must be given by gasfitters when any pipe is ready for inspection.

21 If the rules concerning the size of pipes are not clearly understood in each case, or if unusual conditions are met with, which the rules do not cover, communicate with the Gas Company's Inspector.

22 It is the purpose of the Gas Company to strictly enforce the above rules, and no certificate of inspection will be given when they are not complied with.

23 Architects, builders and owners of buildings are requested not to allow a bill for gasfitting unless accompanied by a certificate of inspection.

NATURAL GAS

SPECIFICATIONS

LOW PRESSURE STEAM AND HOT WATER CIRCULATING BOILERS

1 Use two-inch cast-iron burner with flattened mouthpiece. For water-leg boilers use this style with a mouthpiece at an angle of 45 degrees, and set so that the mouth of the burner is about three inches above the grate line, and about three inches from side of fire box, and from 8 to 10 inches center to center. For return tubular boilers use the straight burners with flattened mouthpiece set at right angles to the length of the boiler, and from 9 to 12 inches below the shell. For each of the above styles of burners use mixer, having flaring opening for the air and a wire screen covering for the air and gas openings.

NOTE.—Special combinations of these two styles of burners can be used to advantage for certain types of boilers. We would recommend consultation with the Gas Company's representative in all special cases.

2 The burners and valves should be arranged so that the first valve will control one burner only, the second valve two burners, and remaining valves not over four burners each. On the reaches from the header supplying the burners, use ½-inch globe valve for one burner, ¾-inch for two burners, and 1-inch for all over two burners.

3 Drill mixer-pins for the single and double burner, $\frac{3}{16}$-inch each. Drill mixer-pins for balance of the burners, $\frac{7}{32}$-inch each.

4 Place sheet-iron across the fire box between the mixers and the top of the burners in such a manner as to exclude air from the fire box, except what passes through the mixers. Do not place sheet-iron across opening to ashpit.

5 The header must be the full size of the pipe leading to the boiler, as specified in the rules for piping for natural gas. Do not take the supply pipe for any other appliances off the header supplying the boiler.

6 There must be a globe valve on the main line leading to the header within easy reach, which can be used to entirely shut off the supply of gas from the header. This valve should be left wide open when burners are used, and the gas supply controlled by the small valves in front of the boiler.

7 There must be a union between the first valve on the header and the nearest fitting on the pipe, and a union on each reach between the valve and the burners.

8 Do not put in pilot lights. They are unnecessary unless a regulator is used. If a regulator is used, the pilot lights will be put in by the the Regulator Company at the time the regulator is installed. If a regulator is ordered, specify that there must be a mixer on each pilot light.

HOT WATER HEATERS

For water heaters with circular fire pots, such as the Wilks, Tabasco, etc., or for small hot water circulating boilers, use the same equipment as for ordinary hot air furnaces, except that if Vulcan burner is used it should be covered with about 6 inches of broken firebrick.

HOT AIR FURNACES WITH CIRCULAR FIRE POTS

Use the Claybourne Improved Cross Burner, with auxiliary, or the Vulcan Round Sectional Burner, with mixers which have flaring opening for air and wire screen covering both air and gas openings.

DIRECTIONS FOR INSTALLING CROSS BURNERS.

1 Set the burner with bottom of burner on grate line. Put mixer for the main burner on horizontal pipe, using a 10-inch nipple between the mixer and the ell turning up toward the burner. Drill opening in mixer-pin ¼-inch. Place the mixer for the auxiliary burner on the vertical pipe and drill the mixer-pin No. 19 Morse drill. Place the iron deflector, furnished with burner, on top of auxiliary burner, leaving not less than 2-inch space all around between deflector and firepot. If space is greater than 5 inches, extend deflector with firebrick.

2 Sheet-iron must be placed between the mixers and the burners in such a way as to entirely exclude air from the fire pot except what passes through the mixers.

3 Make header for furnace same size as run to the furnace, with 1-inch opening for main burner, and ½-inch opening for auxiliary burner.

4 Use 1-inch globe valve for main burner and ½-inch globe valve for auxiliary burner.

5 There must be a globe valve on the main line leading to the header within easy reach, which can be used to entirely shut off the supply of gas from the header.

6 There must be a union between the first valve on the header and the nearest fitting on the pipe.

7 Do not use pilot lights. They are unnecessary unless a regulator is used. If a regulator is used, the pilot lights will be put in by the Regulator Company at the time the regulator is installed. If a regulator is ordered, specify that there must be a mixer on each pilot light.

DIRECTIONS FOR INSTALLING THE VULCAN ROUND SECTIONAL BURNER

1 Burners from 14 to 18 inches in diameter must be of at least three sections, with a separate ½-inch globe valve controlling the supply of gas to each section.

2 Burners 20 inches in diameter or more must be of at least four sections, with a separate ½-inch globe valve controlling the supply of gas to each section.

3 Burners should be placed so that the outside rim of the burner will be not less than 1 inch, or more than 2 inches from the sides of the fire pot.

4 Burners should be placed from 2 to 6 inches above bottom line of fire pot.

5 There must be a globe valve on the main line leading to the header within easy reach, which can be used to entirely shut off the supply of gas from the header.

6 There must be a union between the first valve on the header and the nearest fitting on the pipe.

7 Sheet-iron must be placed between the mixers and the burners in such a way as to entirely exclude air from the fire pot, except what passes through the mixers, and should not be less than 2 inches below the burner.

8 Make openings in the mixer-pins for each section of the burner the size of No. 19 Morse drill.

9 Mixers must be put on the vertical pipes under the burner, and not on the horizontal pipes from header to ashpit.

10 Do not use pilot lights. They are unnecessary unless a regulator is used. If a regulator is used, the pilot lights will be put in by the Regulator Company at the time the regulator is installed. If a regulator is ordered, specify that there must be a mixer on each pilot light.

HOT AIR FURNACES WITH SQUARE FIRE BOXES

For furnaces having a square fire box use the Claybourne box burners, or the Holland box burner. Cover with 4 to 6 inches of broken firebrick. Pieces of firebrick should be about the size of fist. These burners should be set about 6 inches from center to center, with a separate valve controlling the supply to each burner. Drill the mixer-pins for either of these styles of burners, No. 19 Morse drill.

NOTES

1 The above specifications are the result of careful experiments made by us with a view to determining the kind of burners and arrangement which give satisfactory and economical results.

2 It is of the utmost importance in all cases that there should be dampers which will effectually control the draft and remain set in any position desired. The pipe leading to the chimney and the chimney flue should be examined and cleaned. Too much draft is expensive, because of the waste of heat up the chimney, Too little draft causes imperfect combustion and a bad odor from the products of combustion in the basement and throughout the house. Good dampers and proper adjustment of them are as important as good burners.

3 As Natural Gas is becoming more and more generally used in all kinds of appliances, it frequently happens that special forms or arrangements of burners are necessary.

CATALOGUE D

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